FUNAI

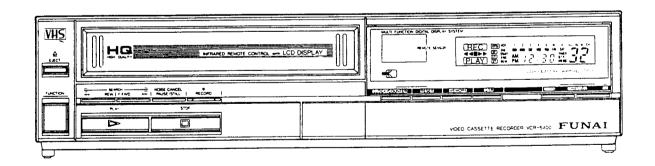
VCR-6400



Video Cassette Recorder

HQ

Video cassette recorders bearing the "HQ" mark incorporate VHS high quality technology. Note that there is interchangeability with former VHS video cassette recorder.

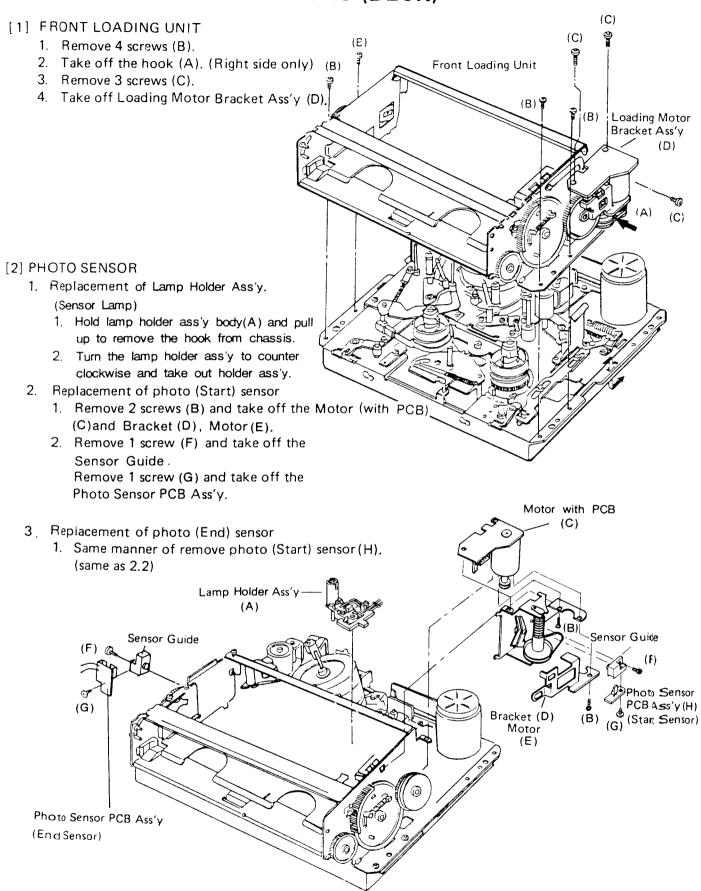


SERVICE MANUAL

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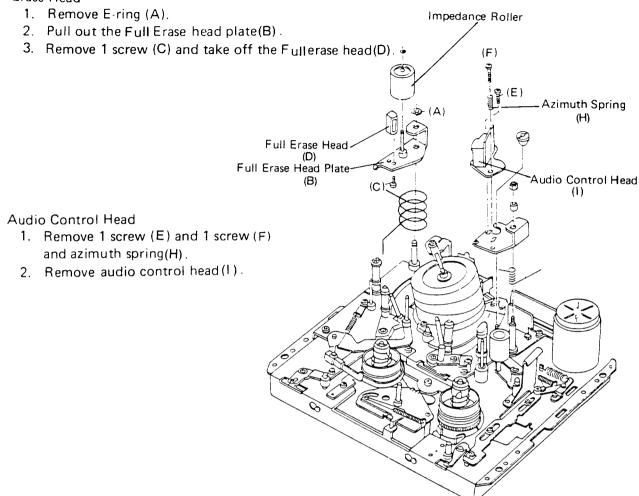
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DISASSEMBLY INSTRUCTIONS (DECK)



[3] FULL ERASE HEAD/AUDIO CONTROL HEAD

Erase Head

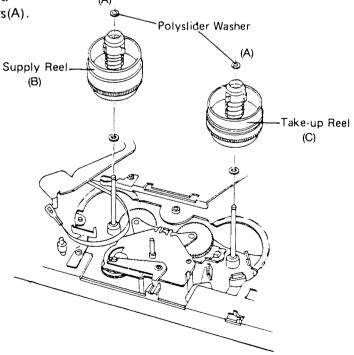


[4] REEL (SUPPLY & TAKE-UP)

(a) Remove front loading unit.

1. Remove polyslider washers(A).

2. Remove the reels(B), (C).

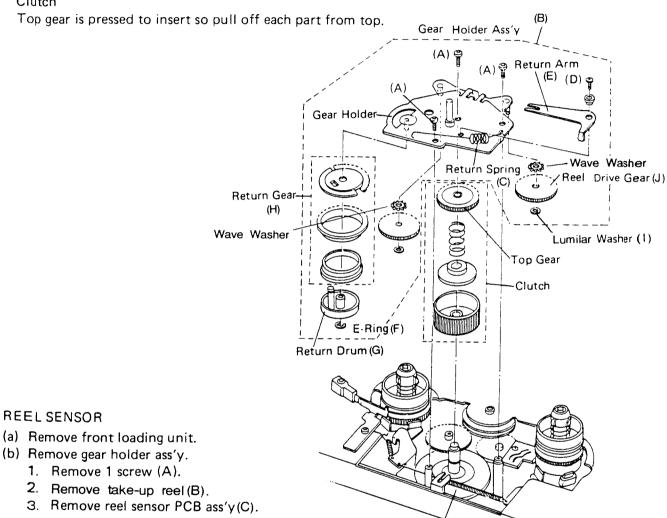


[5] GEAR HOLDER ASS'Y/CLUTCH

Gear Holder Ass'y

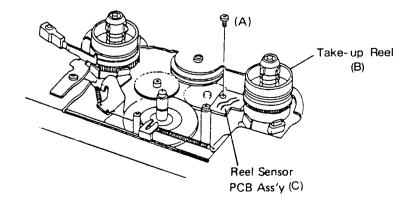
- (a) Remove front loading unit.
- 1. Remove 3 screws (A), and gear holder ass'y(B).
- 2. Remove return spring(C).
- 3. Remove 1 screw (D) and return arm (E).
- 4. Remove E-Ring (F) and return drum (G) and return gear (H).
- 5. Remove polyslider washer (I) and then take off the reel drive gear (J).

Clutch

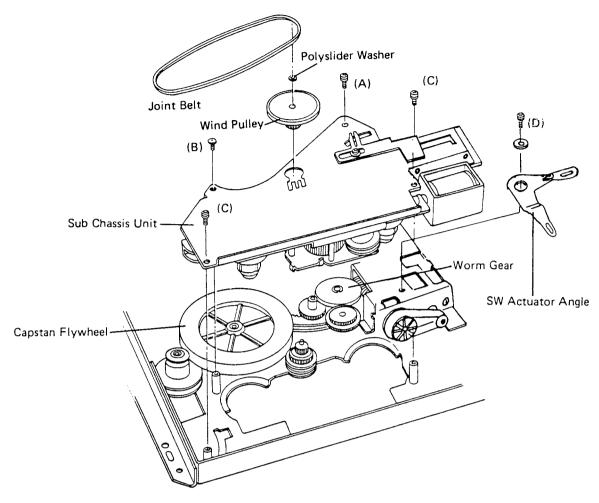


Bottom Geár

[6] REELSENSOR



[7] SUB CHASSIS

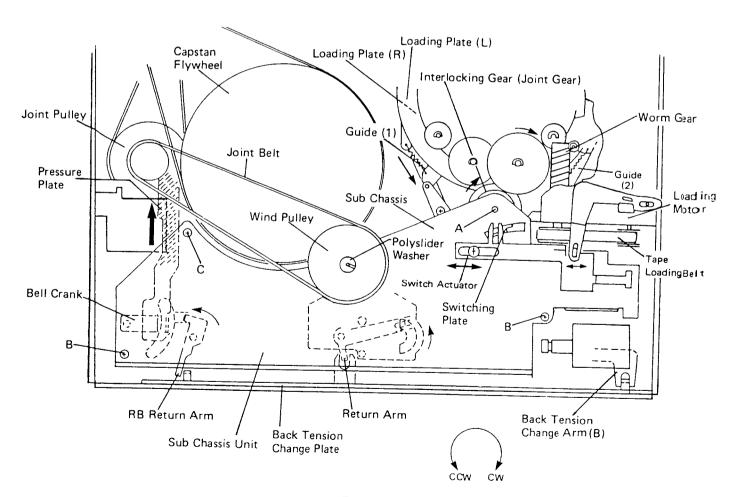


Take out of Sub Chassis Unit

- 1. Turn the Capstan Flywheel clockwise more than three times. (Because the levers, etc. are set at neutral.)
- 2. Remove the Joint Belt.
- 3. Remove the Polyslider Washer.
- 4. Pull out the Wind Pulley.
- 5. Remove 1 screw (D) and take off the SW Actuator Angle.
- 6. Remove 4 mount screws from sub chassis. (Ax1, Bx1 Cx2)
- 7. Take out the Sub Chassis Unit.

Mounting of Sub Chassis Unit

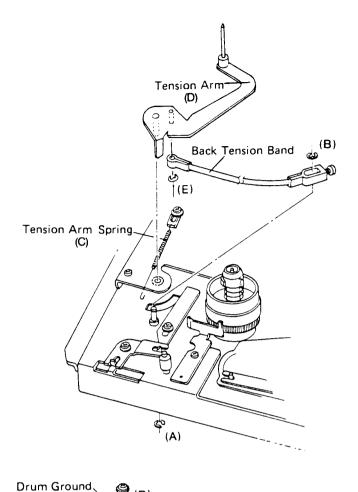
- 1. Turn the Return Arm in the direction of arrow mark.
- 2. Move the Back Tension Change Plate to the right direction extremely.
- 3. Turn the RB return arm to the direction of arrow mark extremely.
- 4. Turn the Loading Plates (L) and (R), and stop them at the position of hitting the wall of groove or just stop.
 - This work is done by turning the pulley of the Worm Gear jointed to the Loading Motor.
- 5. Turn the Interlocking Gear in the direction of arrow mark (counterclockwise) extremely.
- 6. Mount the Sub Chassis Unit. At this time, make the band brake of back tension fit to the supply reel. (Top side)
- 7. Shake the Switch Actuator to right and left in order to confirm the engagement of interlocking gear.
- 8. Slide the Pressure Plate in the direction of arrow mark in order to connect the Pressure Plate with the Bell Crank.
- 9. Mount the Sub Chassis Unit with 4 small screws. $(A \times 1, B \times 2, C \times 1)$
- 10. Insert the Wind Pulley.
- 11. Set the Polyslider Washer.
- 12. Mount the Joint Belt.
- 13. Confirm that the Return Arm is set to the calw of the Back Tension Change Plate. It is OK that following two operations are confirmed by turning the capstan flywheel.
 - (1) When the Capstan Flywheel is turned counterclockwise (CCW), the Back Tension Change Arm moves to the left.
 - (2) When the Capstan Flywheel is turned clockwise (CW), the Back Tension Change Arm moves to the right.



[8] TENSION ARM ASS'Y

Remove front loading unit.

- 1. Remove E-ring (A).
- 2. Remove E-ring (B).
- 3. Remove tension arm spring(C).
- 4. Remove tension arm (D).
- 5. Remove E-ring (E).



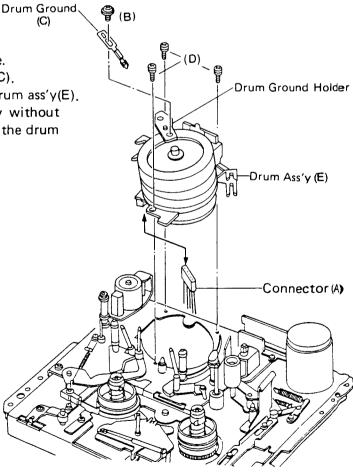
[9] DRUM ASS'Y

(a) Remove front loading unit.

1. Remove connector (A) from bottom side.

2. Remove a screw (B), and drum ground(C).

3. Remove 3 screws (D) and take off the drum ass'y(E). Remark: Remove the drum ass'y carefully without any damage. Especially do not hit the drum ground holder.



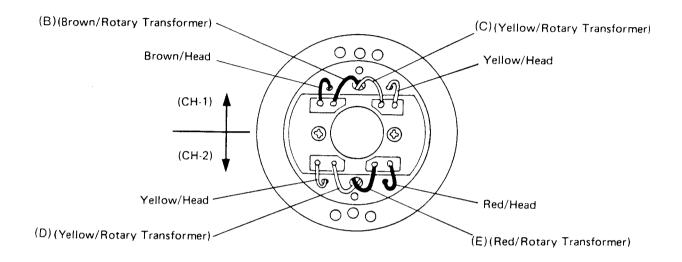
[10] UPPER DRUM

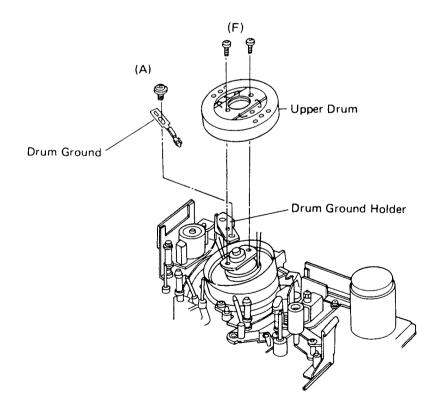
Remove front loading unit.

- 1. Remove 1 screw (A), and drum ground.
- 2. Resolder rotary transformer wires (B).(C), (D) and (E). Do not unsolder head wires.
- 3. Remove 2 screws (F).

Remarks: 1) Use gloves and do not touch with bare finger or dust to drum face.

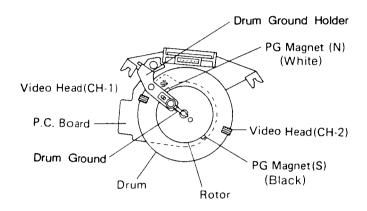
2) If the video head is defective, replace the complete upper drum with head.

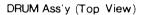


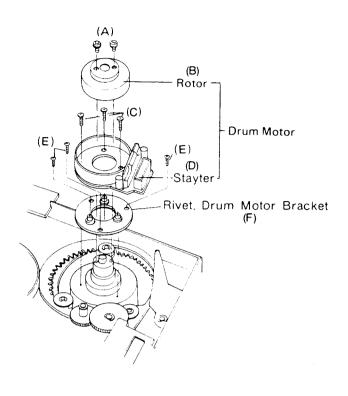


[11] DRUM MOTOR

- 1. Remove 2 screws (A).
- 2. Remove the rotor(B).
- 3. Remove 3 screws (C).
- 4. Remove stayter(D).
- 5. Remove 3 screws (E)
- 6. Remove Rivet, Drum Motor Bracket(F).

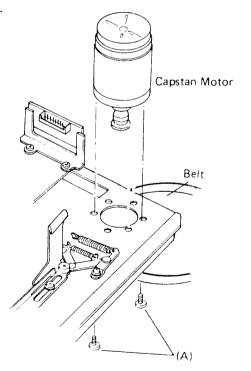






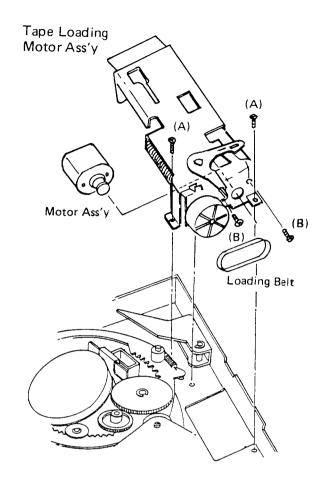
[12] CAPSTAN MOTOR

- 1. Take off the belt from capstan motor.
- 2. Remove 2 screws (A).



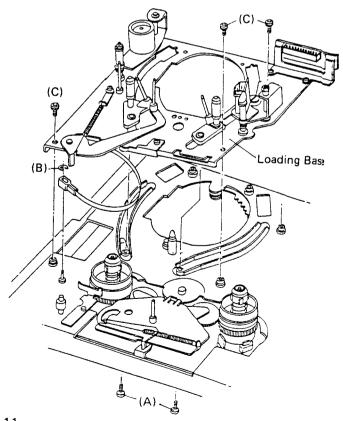
[13] TAPE LOADING MOTOR

- 1. Remove 2 screws (A).
- 2. Take off Tape Loading Motor Ass'y.
- 3. Take off Loading Belt.
- 4. Remove 2 screws (B) and take off Motor Ass'y.



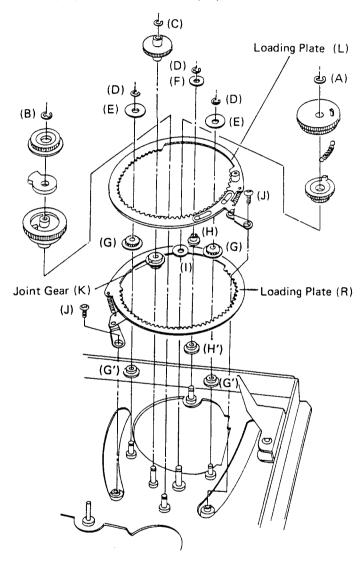
[14] LOADING BASE

- 1. Remove Motor Ass'y and Drum Ass'y.
- 2. Remove 2 screws (A) from bottom.
- 3. Remove E-ring (B).
- 4. Remove 3 screws (C).
- 5. Take off the Loading Base.



[15] LOADING GEAR

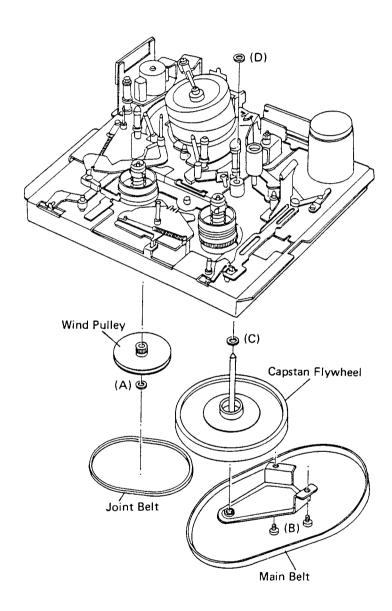
- 1. Remove Sub-Chassis Unit Flywheel and Front Loading Motor Ass'y.
- 2. Remove E-ring (A) and take off Gear Ass'y.
- 3. Remove E-ring (B) and take off Gear Ass'y.
- 4. Remove E-ring (C) and take off Gear Ass'y.
- 5. Remove 3 E-rings (D), 2 Plate Washers (E) and 1 Plate Washer (F).
- 6. Remove 2 screws (J).
- 7. Take off the Loading Plate (L).
- 8. Take off the Joint Gear (K), 2 Guide Gears (G), Guide Roller (H) and Plate Washer (I).
- 9. Take off the Loading Plate (R).
- 10. Take off 2 Guide Gears (G') and Guide Roller (H').



[16] CAPSTAN FLYWHEEL

- 1. Remove Front Loading Unit.
- 2. Take off the Joint Belt and Main Belt.
- 3. Take off the Polyslide Washer (A) and Wind Pulley.
- 4. Remove 2 screws (B).

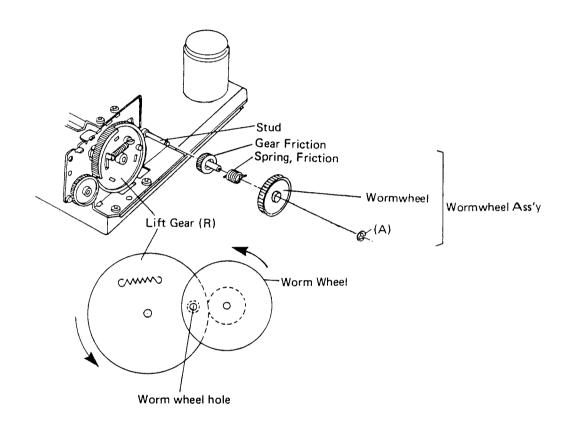
Remark: Do not miss the washer (C) and (D) when pull out the capstan flywheel.



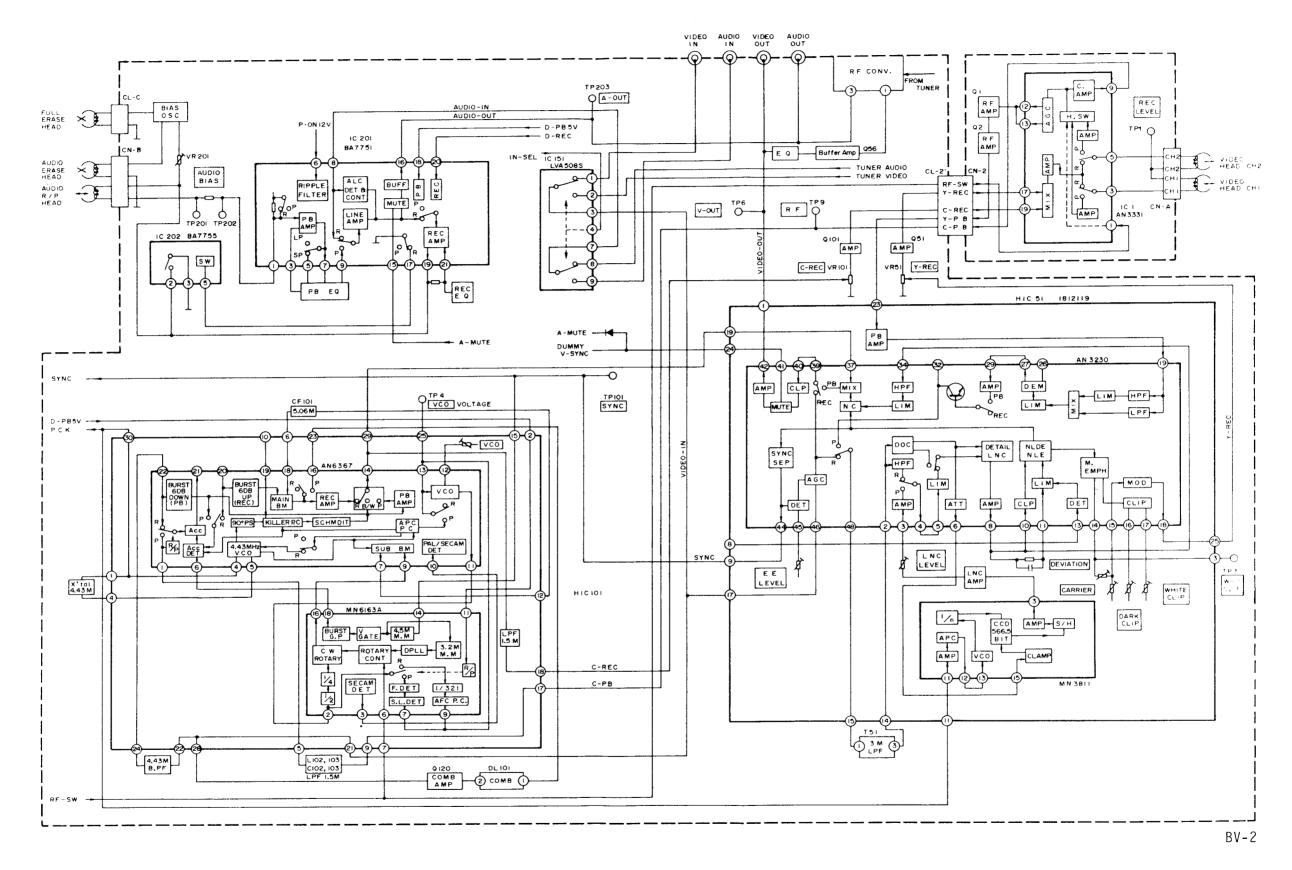
[18] FRONT LOADING WORMWHEEL UNIT

- DISASSEMBLY
 - 1. Remove E-ring (A).
 - 2. Remove Wormwheel Ass'y. (Wormwheel, Spring Friction, Gear Friction.)
- ASSEMBLY
 - 1. Turn Lift Gear (R) fully counterclockwise.
 - 2. Restore Wormwheel Ass'y to Stud.

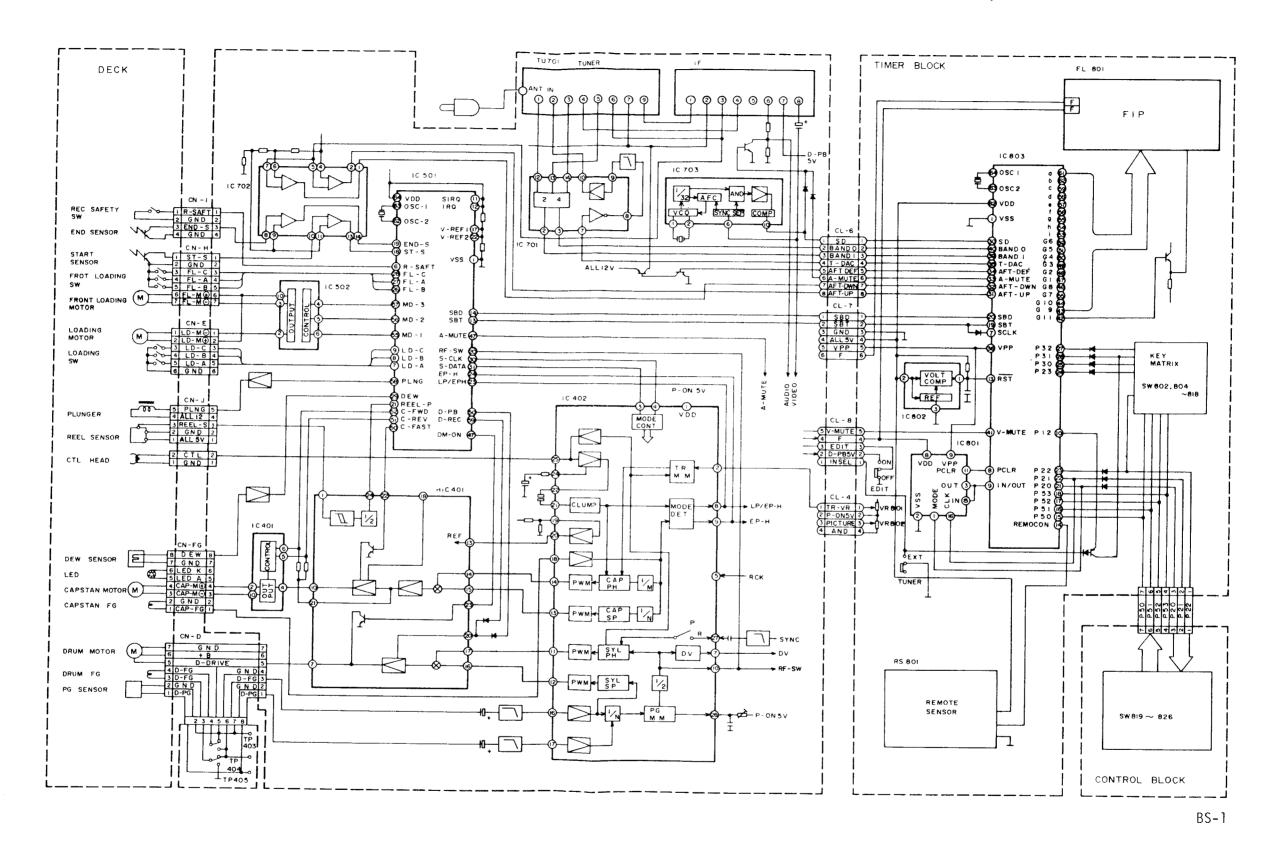
 Match Lift Gear (R) to Wormwheel Hole as illustrated.



BLOCK DIAGRAM (VIDEO/AUDIO)

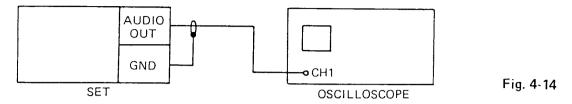


BLOCK DIAGRAM (SERVO/SYSCON/TUNER/TIMER/CONTROL)

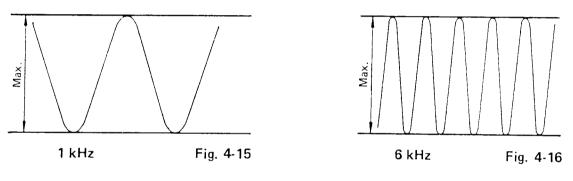


DECK ADJUSTMENT

- 1. Audio/control head height and azimuth adjustment.
 - 1. Connect CH1 of oscilloscope to AUDIO OUT. (Fig. 4-14)



- 2. Playback test tape F-6A 1kHz Audio Signal.
- 3. Adjust nut (A) to obtain maximum audio output level (Fig. 4-15/17)
- 4. Playback test tape F-6N (6kHz Audio Signal)
- 5. Adjust screw © to obtain maximum audio output level (Fig.4-16/17)
- 6. Check that smooth tape transportation at the take-up guide pole. Especially tape separate and wrinkling. If these problem occur Pre-adjust (A) and (C). (Fig.4-17)
 7. Adjust screw (B) to obtain maxium audio output level. (Fig.4-16/17)



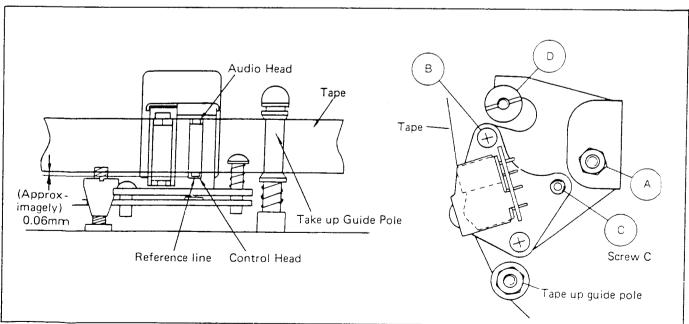
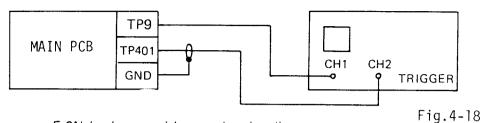


Fig. 4-17 A/C Head Adjustment

2. FM peak adjustment

- 1. Connect CH1 of oscilloscope to TP9.
- 2. Connect CH2 of oscilloscope across TP401 and Ground.
- 3. Set oscilloscope to TRIGGER mode.



- 4. Playback test tape F-6N (stair step without color signal).
- 5. Adjust screw (D) to obtain maximum FM output level. (Fig. 4-17,4-19)

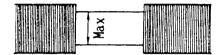


Fig.4-19

3. FM waveform adjustment

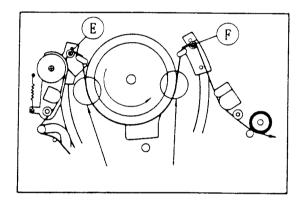
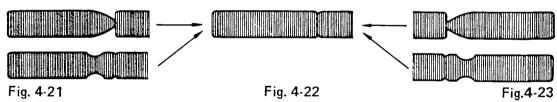


Fig.4-20

- 1. Connect CH1 of oscilloscope to TP9.
- 2. Connect CH2 of oscilloscope across TP401 and GND.
- 3. Set oscilloscope to TRIGGER mode.



- 4. Playback test tape F-6N (stair step without color signal).
- 5. If the FM waveform observing by oscilloscope as same as shown in Fig. 4-21, adjust screw (F) until waveform becomes as shown in Fig. 4-22.
- 6. If the FM waveform observing by oscilloscope is as same as shown in Fig. 4-23, adjust screw (E) until wave form becomes as shown in Fig. 4-22.
- NOTE: 1. Confirm that Electrical Adjustment (Video Head Switching Point and CTL Preset) has been done before Deck Adjustment.
 - 2. Deck Adjustment should be done at Tracking Volume center position.

Service schedule of components

○:Check •:Replace

	Deck	Periodic Service Schedule							
Ref.No	Parts Name	1000	hr	2000	hr	3000	hr	4000	hr
2	Drum, upper with video head	0		•	-	0	-	•	
224	Pinch Roller (A)			•				•	
301	Ass'y, Clutch			•				•	
392	Motor Ass'y, Capstan			•				•	
651	Motor with Pulley					•			
702	Motor Ass'y, Loading					•			
373	Belt, Main			•				•	
393	Belt, Drive			•				•	
394	Belt, Joint			•		·-··		•	
659	Belt, TL			•				•	
338	Shue, Brake			•				•	
193	Flat Ass'y, Back Tension			•				•	
16	Ground, Drum					•			\exists
142	Head, Audio/Control					•			
178	Head, Full Erase	10				•			-
281	Reel Ass'y, Supply					•			\dashv
282	Reel Ass'y, Take-up (B)	 -				•			\dashv
311	Clutch Ass'y, RF (B)			•	1		1	•	\dashv

⁻ How to service the defective units. -

Clean all parts for the tape transportion.
 Drum, upper with video head / Pinch Rollre Audio/Control head / Full erase head

^{2.} After clean up the parts must be confirmed all DECK ADJUSTMENT.

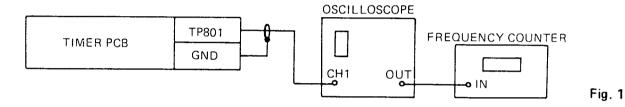
ALIGNMENT INSTRUCTIONS

PREPARATION

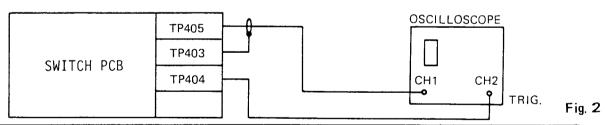
Electrical adjustments are required after replacing circuit components and certain mechanical parts. It is important to perform these adjustments only after all repairs and replacements have been completed. Also, do not attempt these adjustments unless the proper equipment is available.

REQUIRED TEST EQUIPMENT

- 1. Oscilloscope: Dual-trace with 10: 1 prove.
- 2. Frequency Counter
- 3. Color Monitor
- 4. Pattern Generator (Color bar with 100% white)
- 5. AC Voltmeter (RMS)
- 6. Alignment Tape F6-A (Color bar with 100% white)



No.	Item	Test point	Adjustment point	Method	Connection Figure
1	Timer clock E-E Mode	TP801 Ground	TC801	 Connect the oscilloscope across. TP801 and Ground. Connect the frequency counter to oscilloscope out. Make adjustment by TC801 so that the indication of frequency counter becomes 524.288 kHz ± 1Hz. 	Fig. 1



No.	Item	Test point	Adjustment point	Method	Connection Figure
2	Drum PG/FG polarity Adjust- ment (P.B. Mode) Test Tape F6-A	TP403 (GND) TP404 (FG) TP405 (PG)	SW401	1. Connect CH1 of oscilloscope across. TP405 and Ground (TP403). 2. Connect CH2 of oscilloscope to TP404. 3. Set oscilloscope mode to (—) Trigger. 4. Set SW401 either position so that PG, FG pulse becomes as shown below. PG CH-1 SW401 CH-2	Fig. 2

^{*} SW401 adjustment only needs when the deck is replaced.

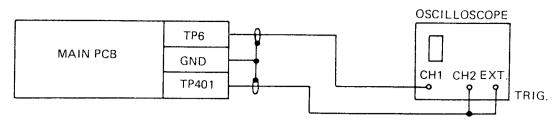
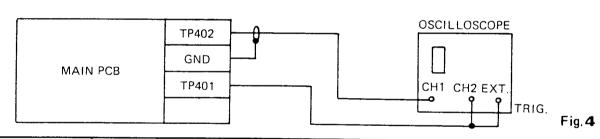
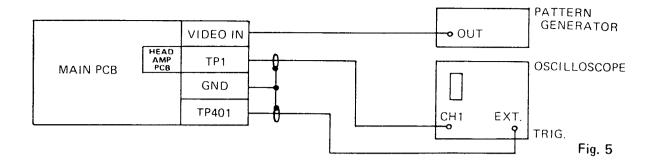


Fig. 3

No.	Item	Test point	Adjustment point	Method	Connection Figure
3	Switching point Adjustment Test Tape F6-A	TP6 TP401	VR401	1. Connect CH1 to TP6 of VIDEO-OUT and CH2 to TP401, and set EXT. Trigger mode (+) Trigger. 2. Playback the tape and adjust by VR401 so that the Vsync front edge of CH1 video output waveform comes the position where 6.5H is delayed from the rising of CH2 Head Switching Pulse waveform. CH-1) CH-1 Switching pulse Switching pulse	Fig. 3



No.	Item	Test point	Adjustment point	Method	Connection Figure
4	CH 2	H1 becomes	same position	 Connect CH1 of oscilloscope across TP402 and Ground. Connect CH2 of oscilloscope across TP401 and Ground. Set oscilloscope mode to EXT. Trigger (+) Trigger. Playback the tape by setting tracking volume at center click position. Adjust VR402 to make a position of CTL signal where delated 2.3m sec. from switching pulse starting position. 	Fig. 4
	** 2 SPEED MOD	EL ONLY.		* 1 SPEED MODEL ONLY.	



No.	Item	Test point	Adjustment point	Method	Connection Figure
5	Rec. Current Adjustment (Rec. Mode) Blank tape	TP1 (GND) TP401	VR51 VR101	 Connect CH1 of oscilloscope across TP1 and Ground. Connect EXT. Trig. of osilloscope across TP101 and Ground. Turn VR51 to fully clockwise direction Input RED only signal to VIDEO INPUT. Adjust by VR101 so that chroma level becomes 25mVp-p, ± 3mV. Adjust by VR51 so that V-Sync level becomes 140 mVp-p ± 10mV. 	Fig. 5

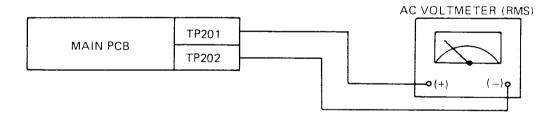
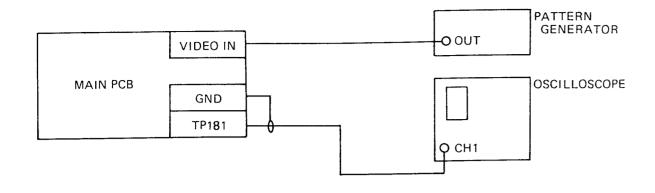


Fig. 6

No.	Item	Test point	Adjustment point	Method	Connection Figure
6	REC Bias Current	TP201 TP202	VR201	 Set the REC status by the blank tape. (Do not set the PAUSE. In PAUSE mode, the bias oscillation is stopped.) Connect the AC voltmeter to TP201 and TP202. Adjust by VR201 so that the voltage becomes 22 mV. 	Fig. 6

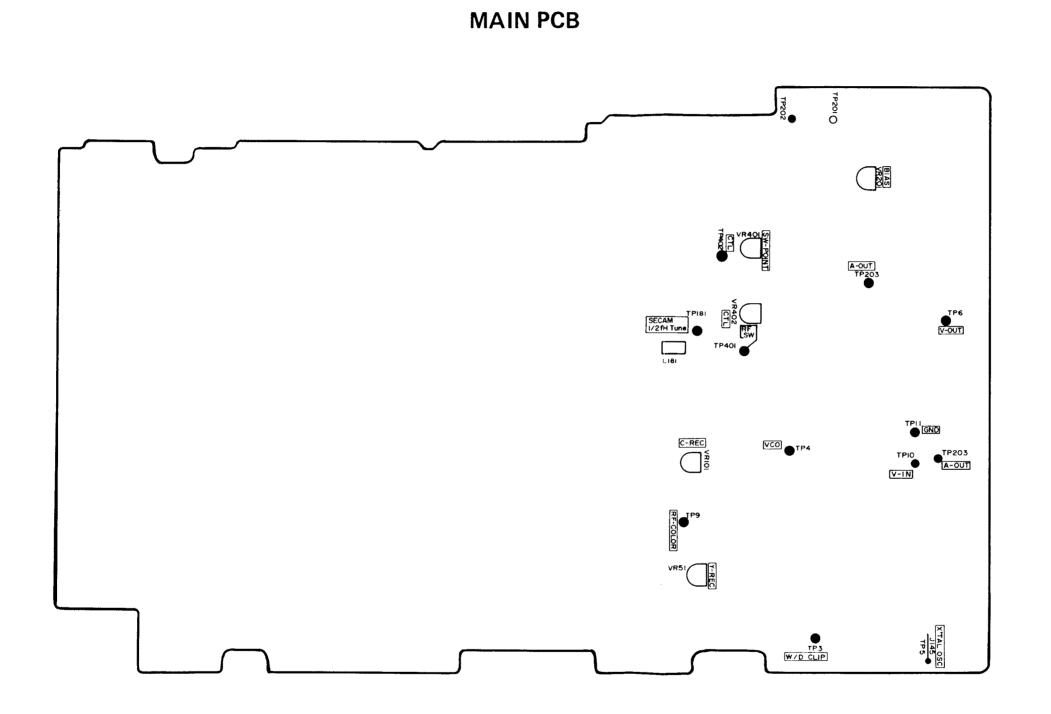


No.	Item	Test point	Adjustment point	Method	Connection Figure
7. *	SECAM 1/2 fH Tune Adjustment (Rec. Mode) Blank tape	TP181 GND	L181	 Connect the equipment as shown in Fig. 7. Input SECAM color bar to VIDEO IN. Adjust L181 to make maximum output level. 	Fig. 7

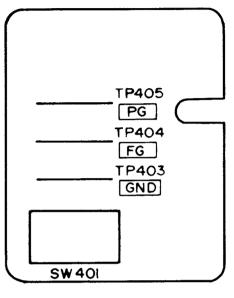
^{*} Note: Require this adjustment for ME-SECAM model only.

– 23 –

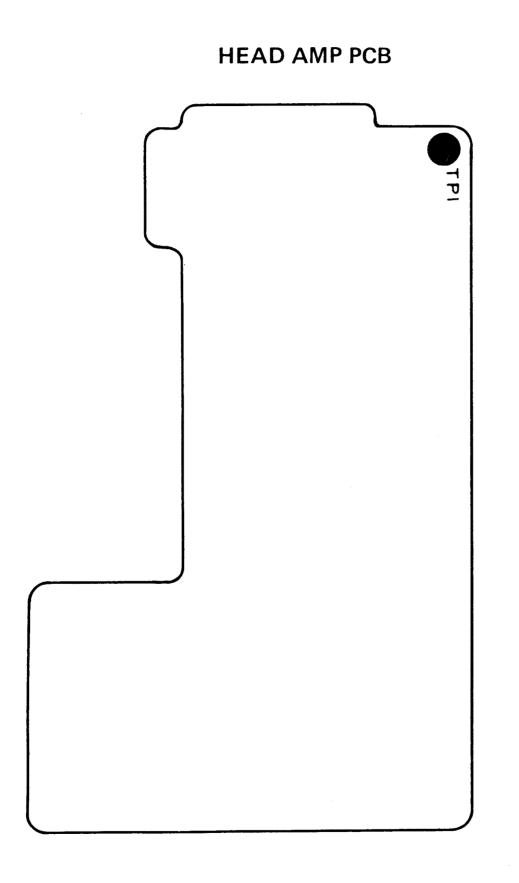
TEST POINTS AND ALIGNMENT POINTS

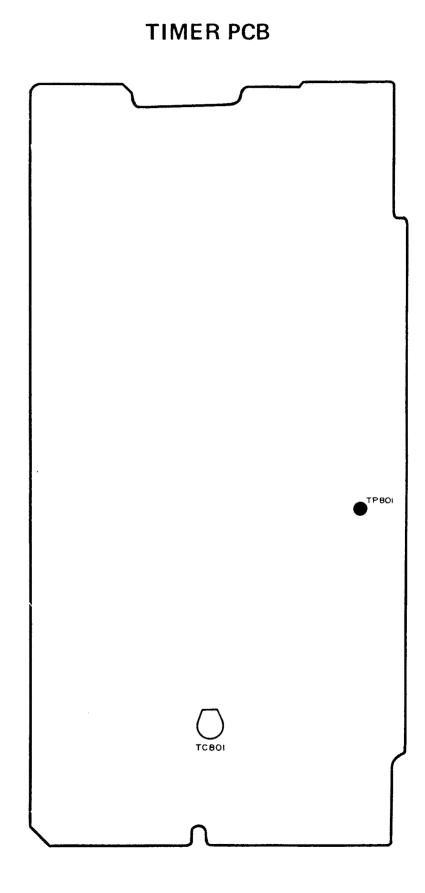


SWITCH PCB

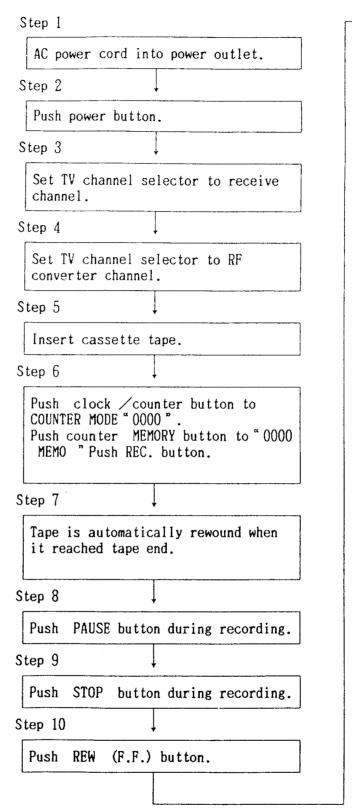


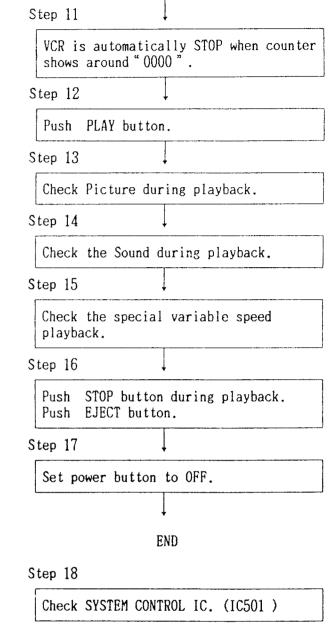
TEST POINTS AND ALIGNMENT POINTS

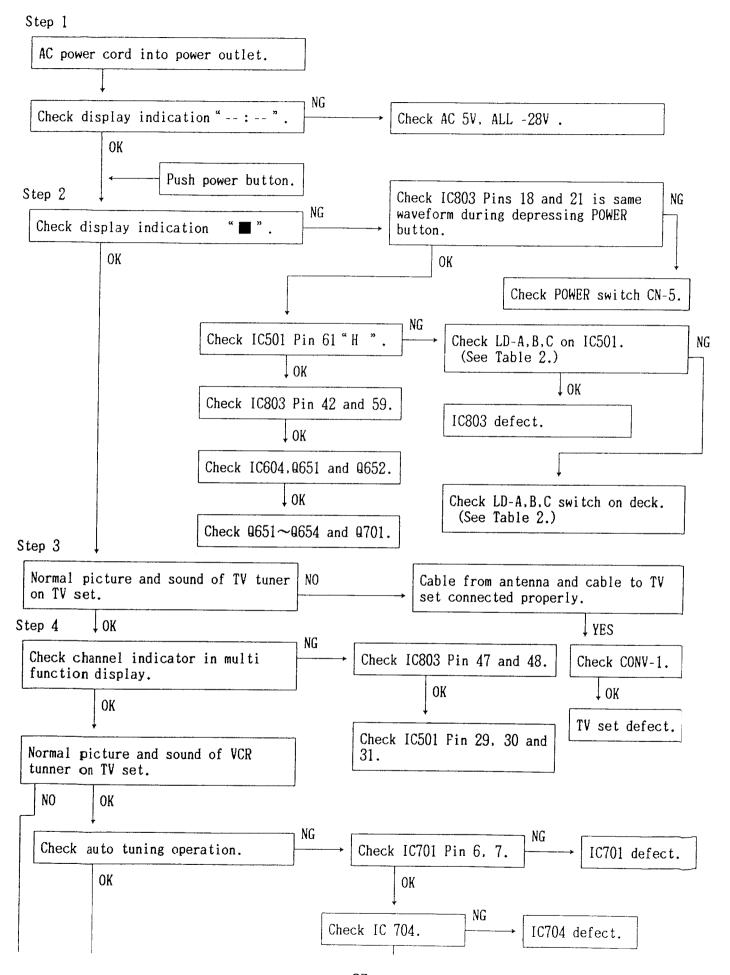


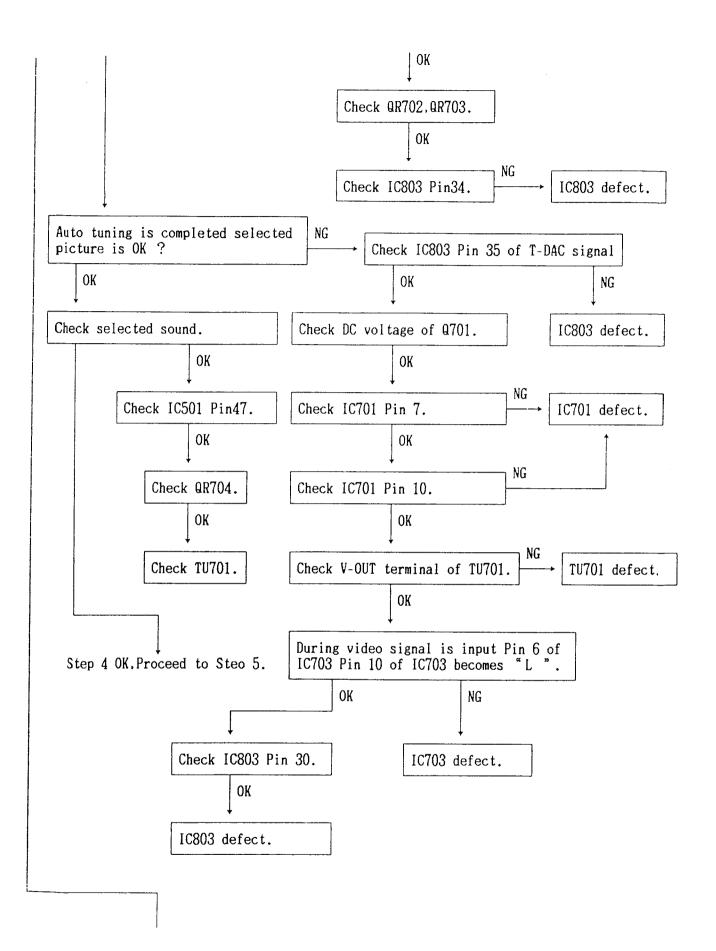


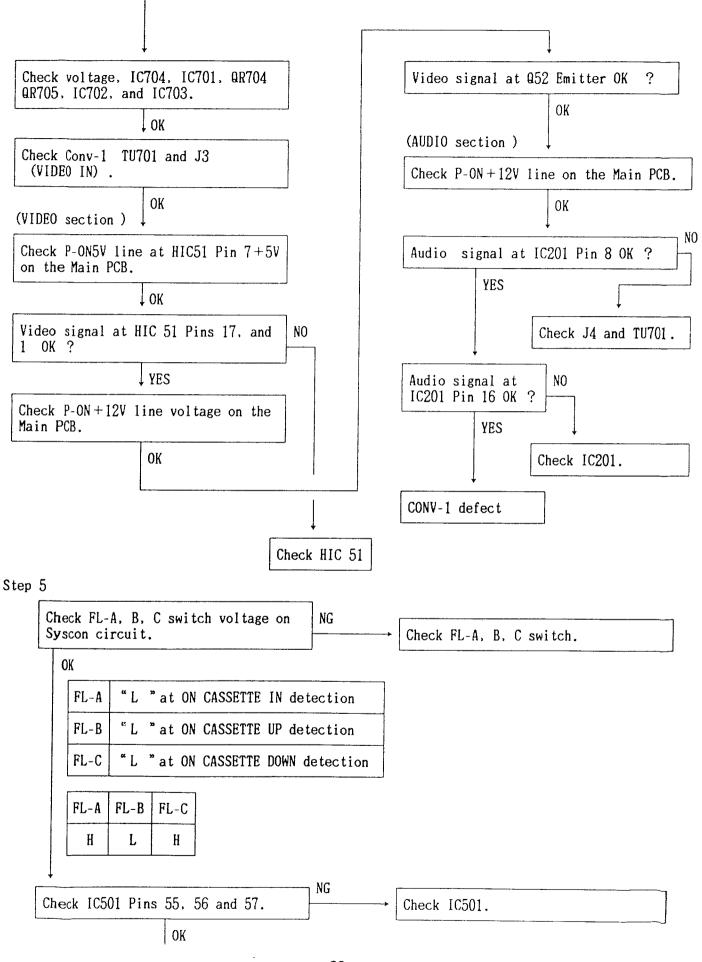
TROUBLESHOOTING GUIDE

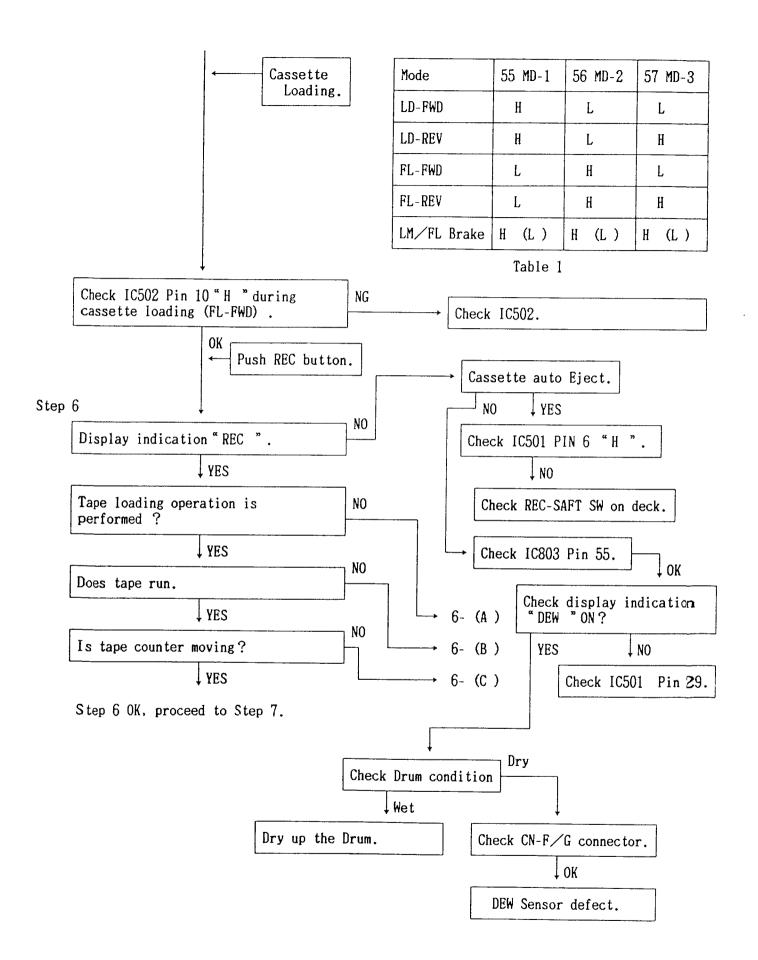


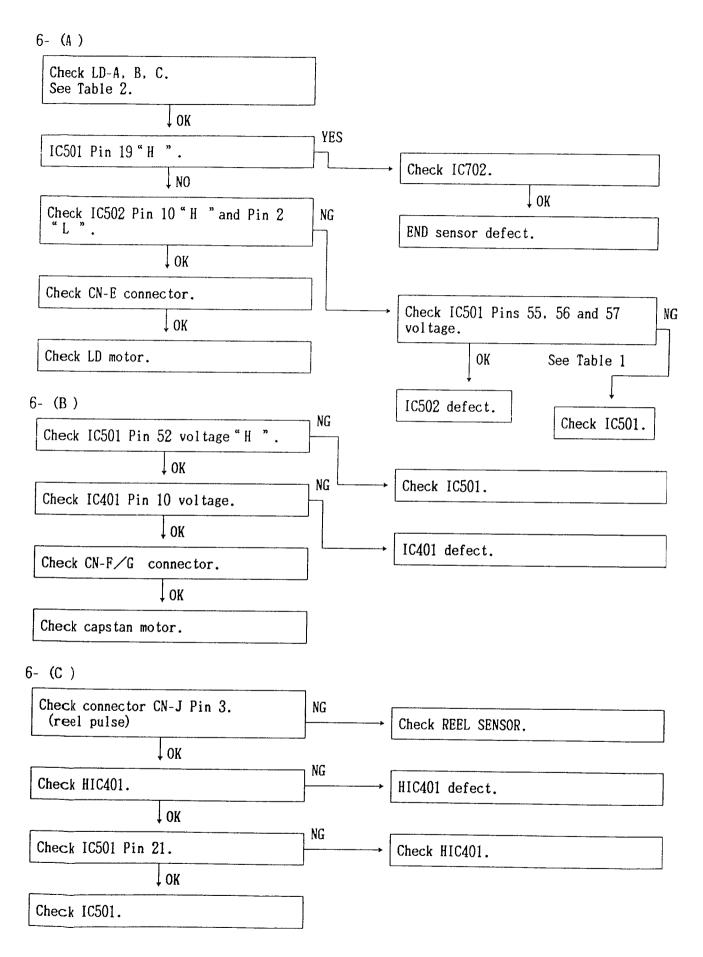




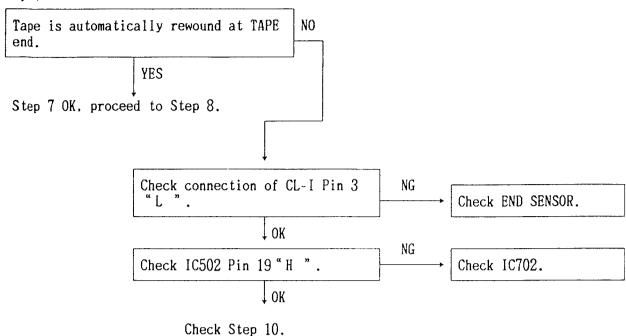


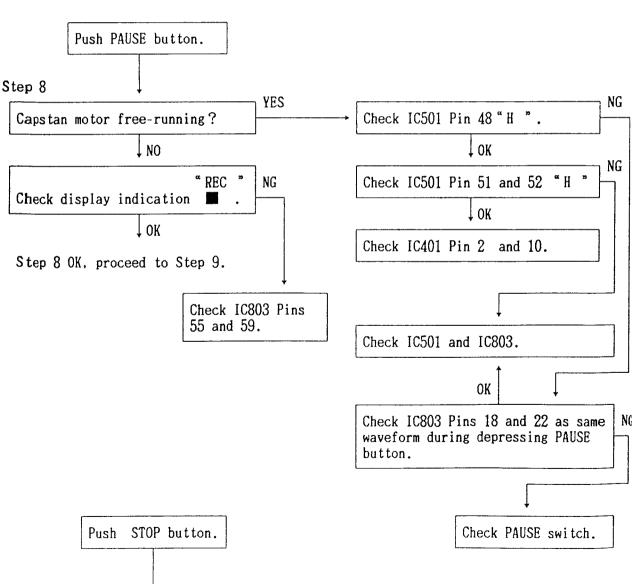


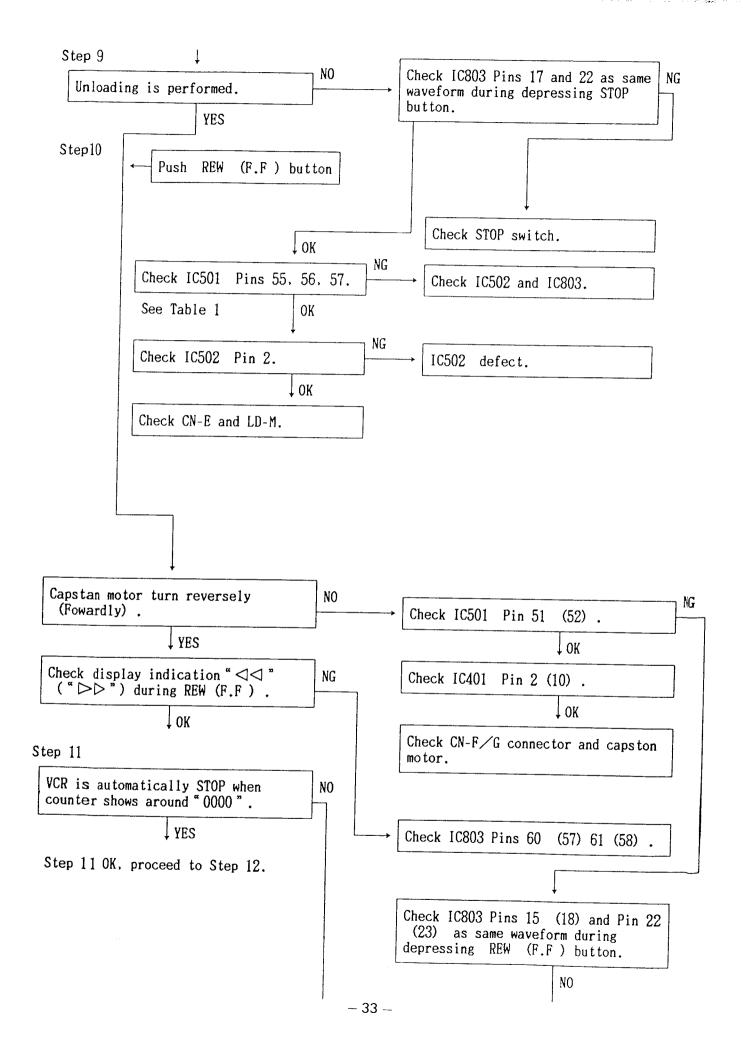


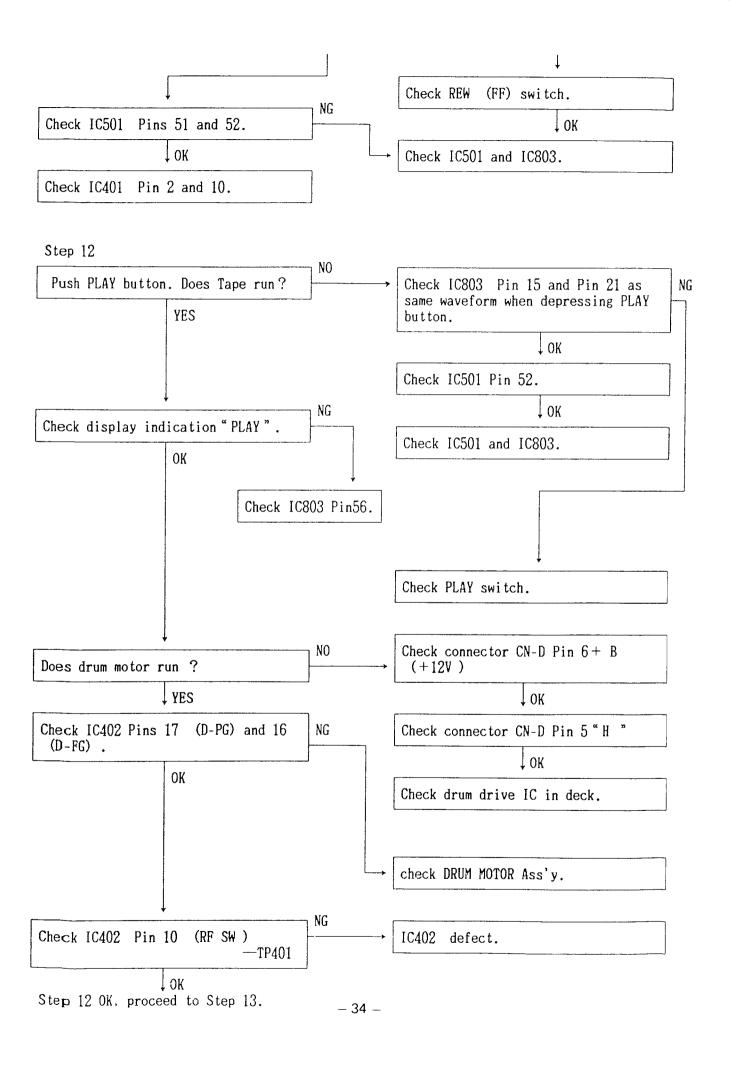


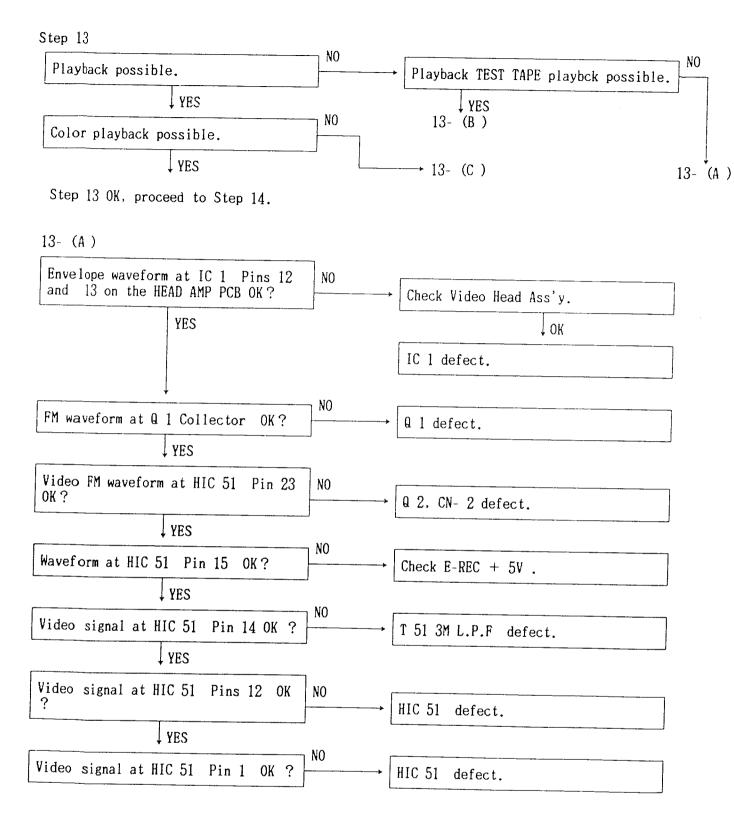


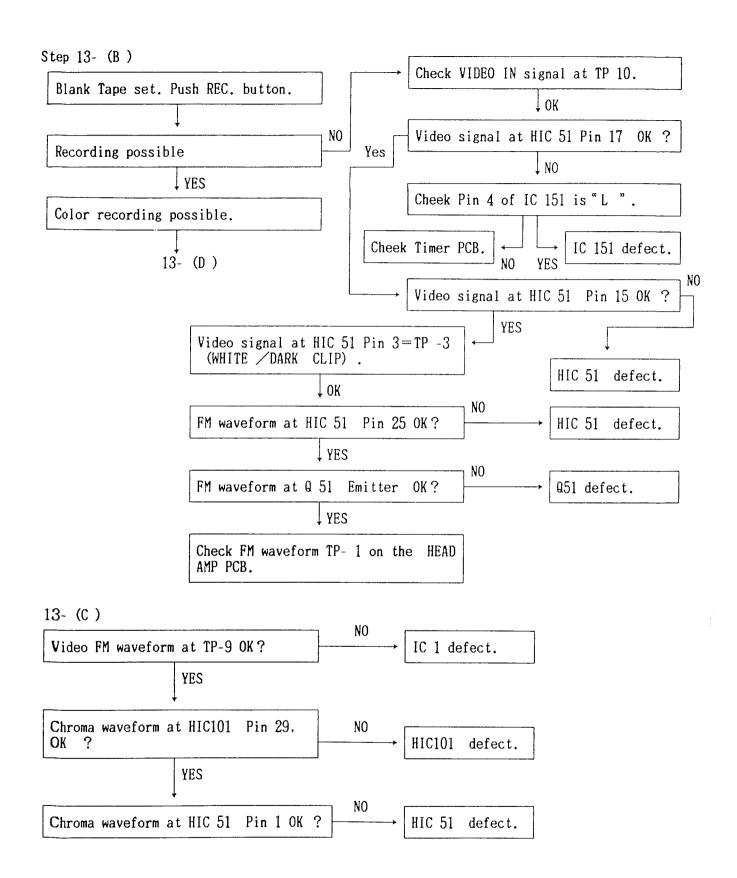


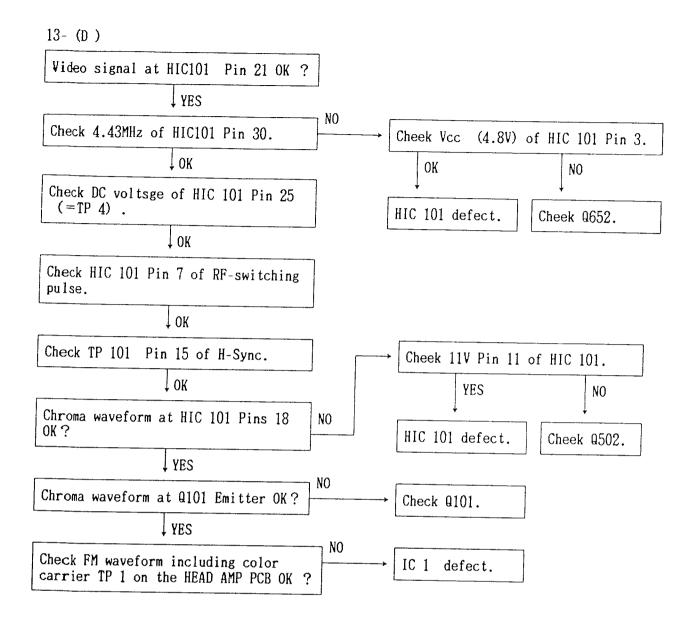


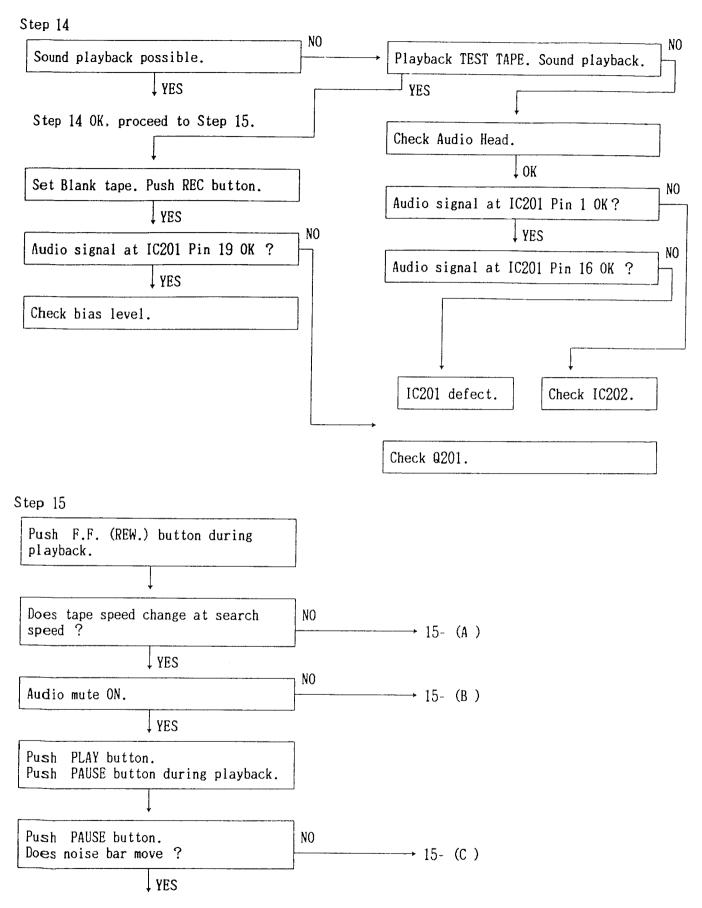




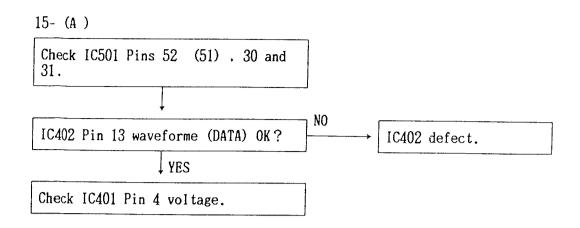


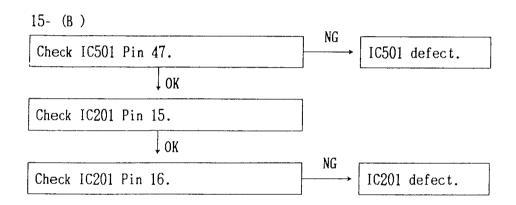


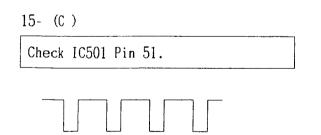


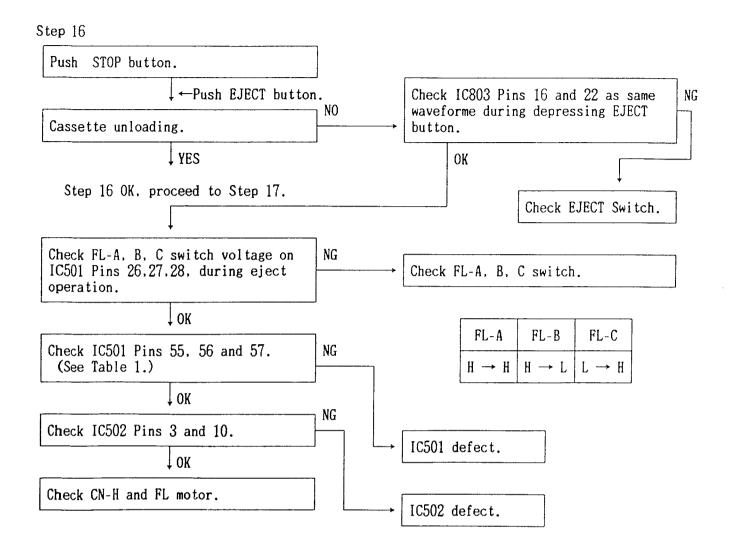


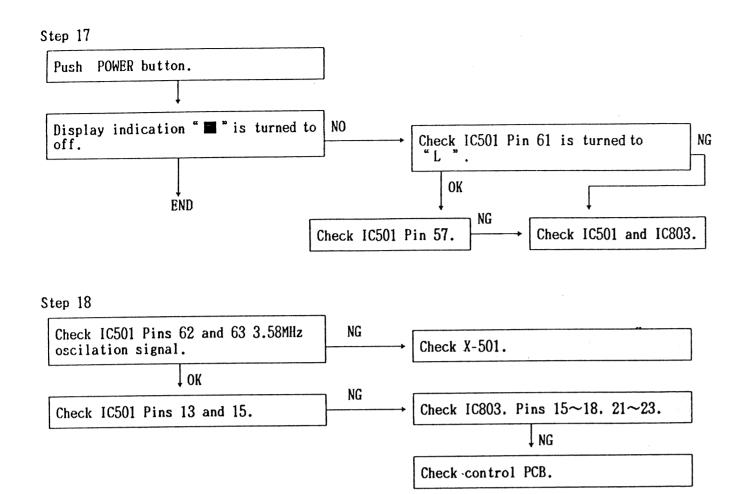
Step 15 OK, proceed to step 16.





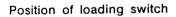


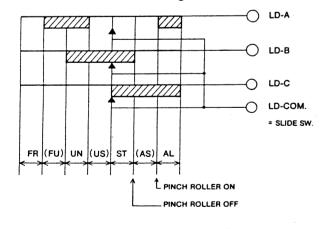




Sten19

* When SYSTEM CONTROL IC has run away SYSTEM CONTROL IC will not accept any mode. At this time, AC CORD must disconnect to reset the SYSTEM CONTROL IC.





	LD SW		Symbol	Position	
Α	В	С	Symbol	rosidon	
ı	1	1	FR (FR LOADING)	FF. REW	
0	1	ı	(FU)		
0	0	ı	UN (UN-LOADING)	STOP EJECT	
1	.0	1	(US)		
1	o	0	ST (SHORT STOP)	Loading motor is stopped temporarily at unloading.	
1	1	0	(AS)		
0	1	0	AL (AFTER-LOADING)	PLAY RECPAUSE SHORT REW	

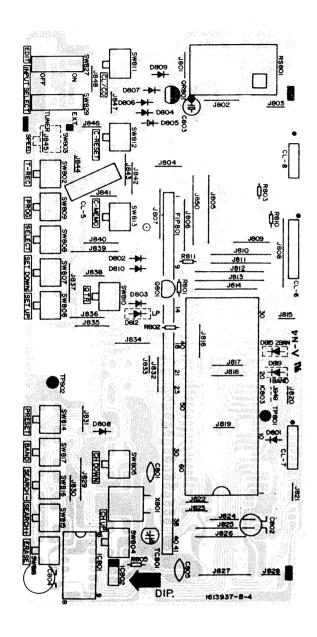
O:MAKE I:BREAK

Break means intermediate position

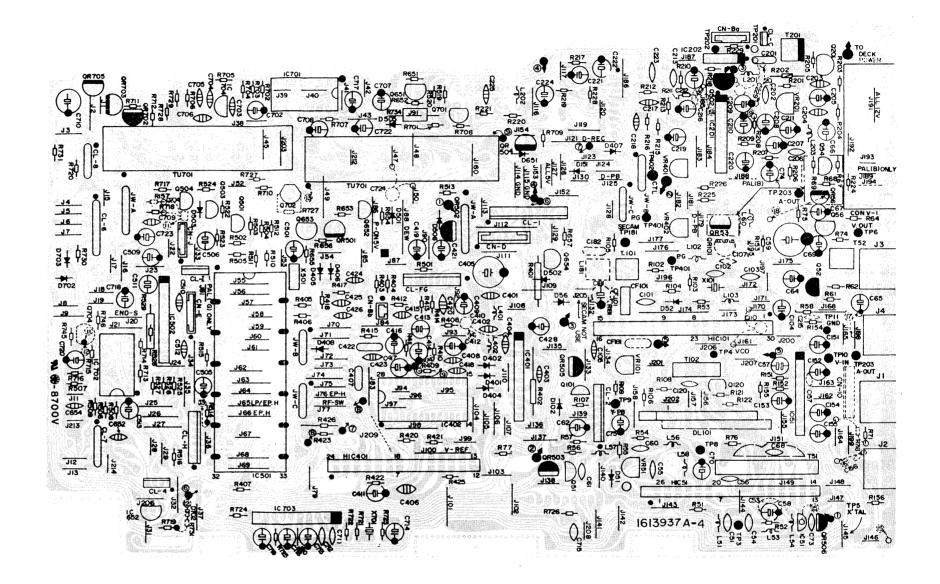
Table 2.

P.C.BOARD TOP AND BOTTOM VIEWS

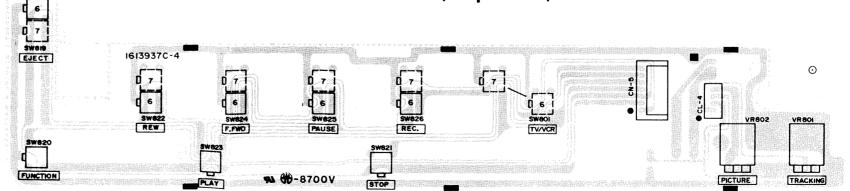
Timer PCB (Top View)



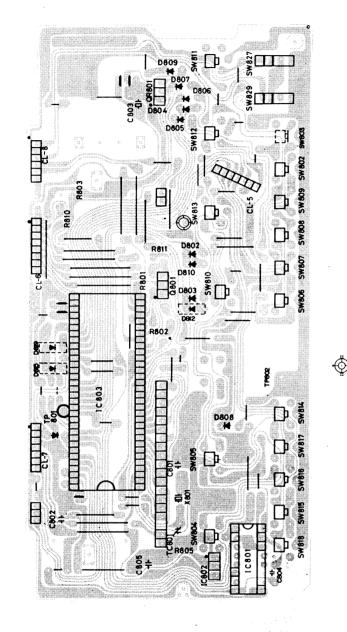
Main PCB (Top View)



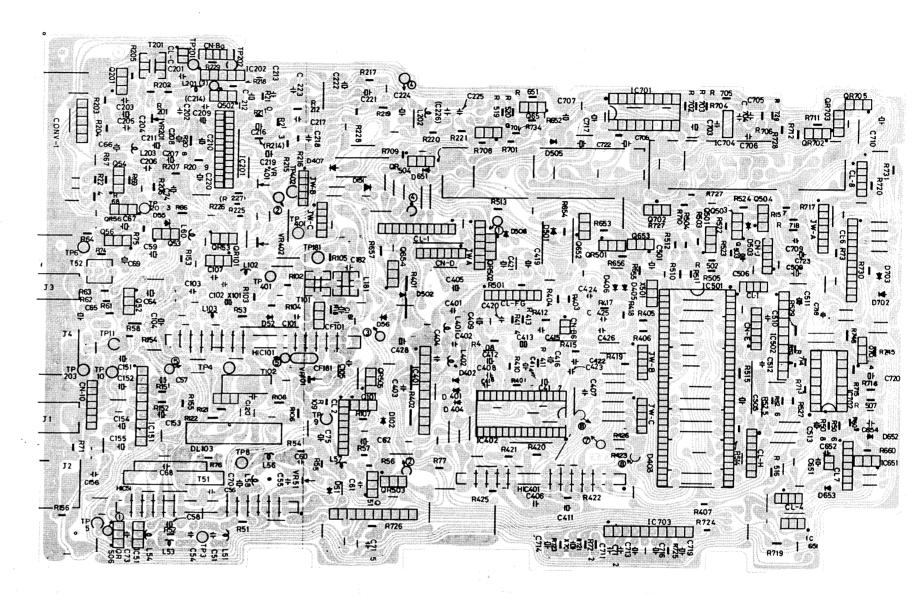
Control PCB (Top View)



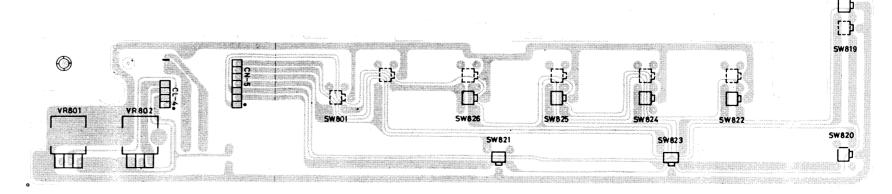
TIMER PCB (BOTTOM VIEW)



MAIN PCB (BOTTOM VIEW)



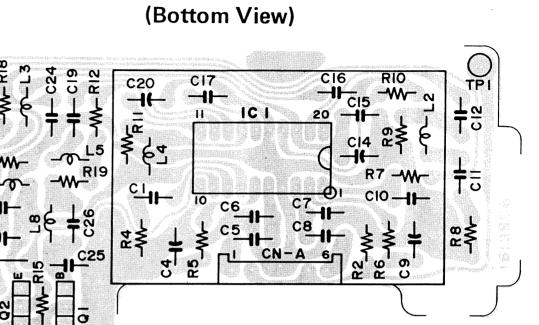
CONTROL PCB (BOTTOM VIEW)



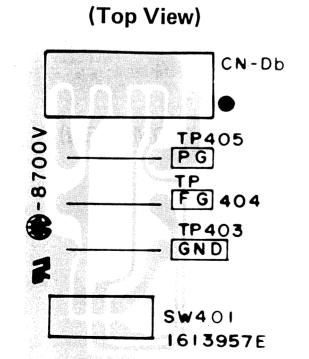
HEADAMP PCB

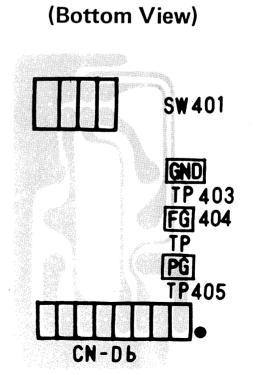
Top View)

State of the state o

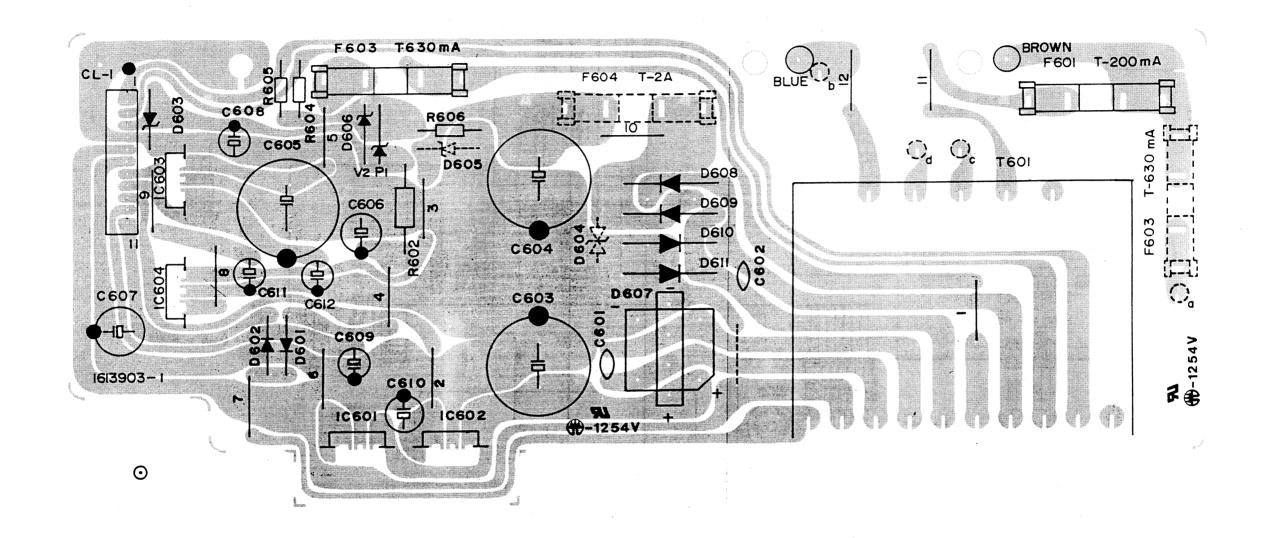


SWITCH PCB

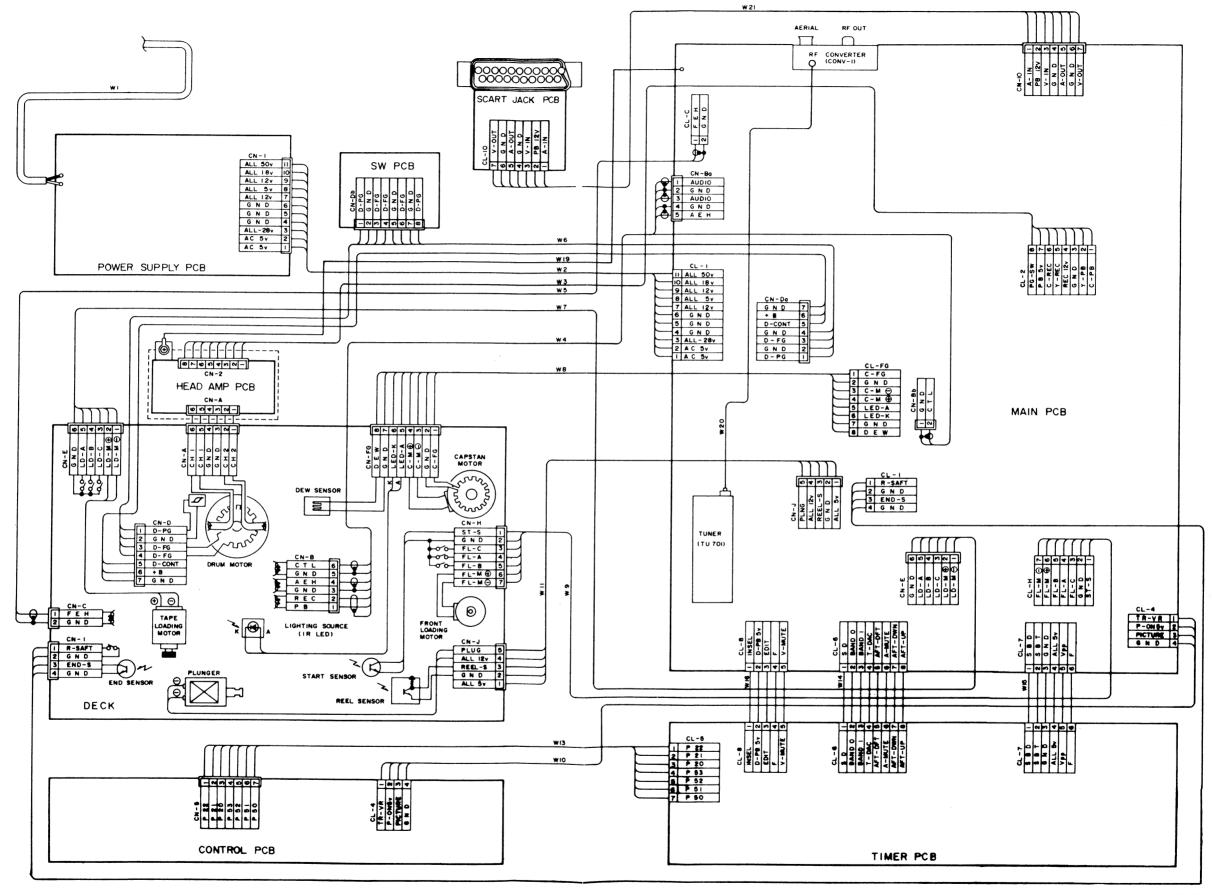




POWER SUPPLY PCB (TOP VIEW)

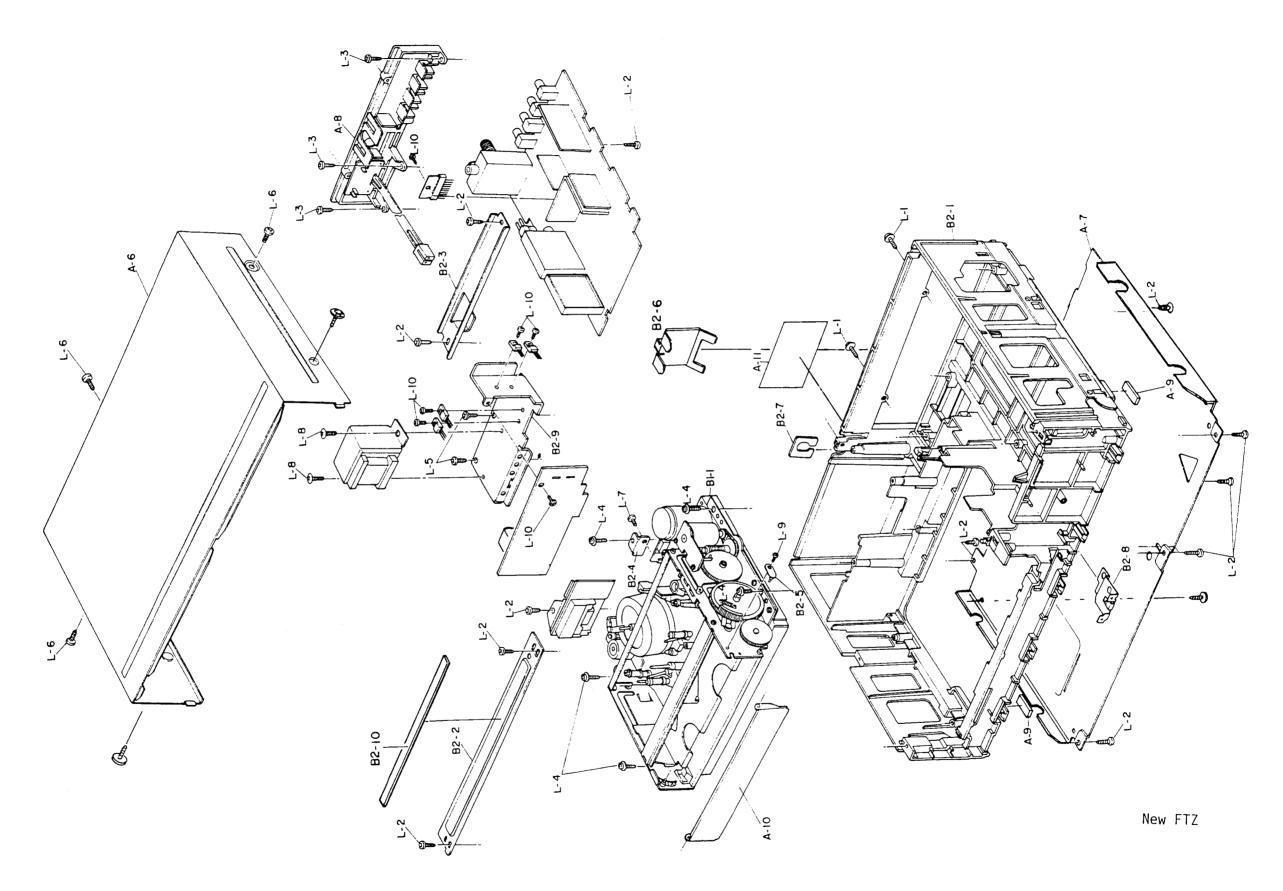


WIRING DIAGRAM



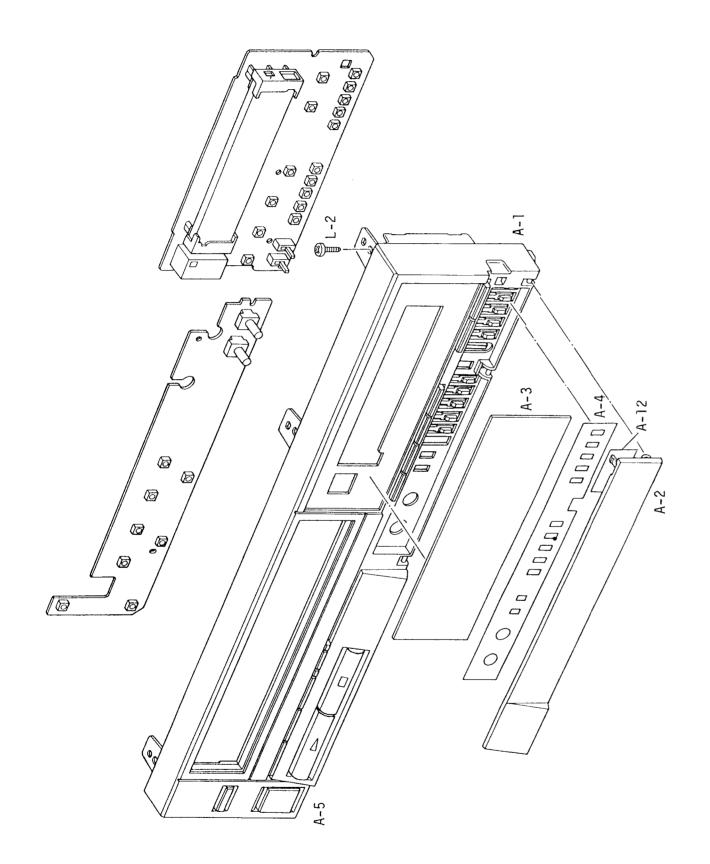
W-5

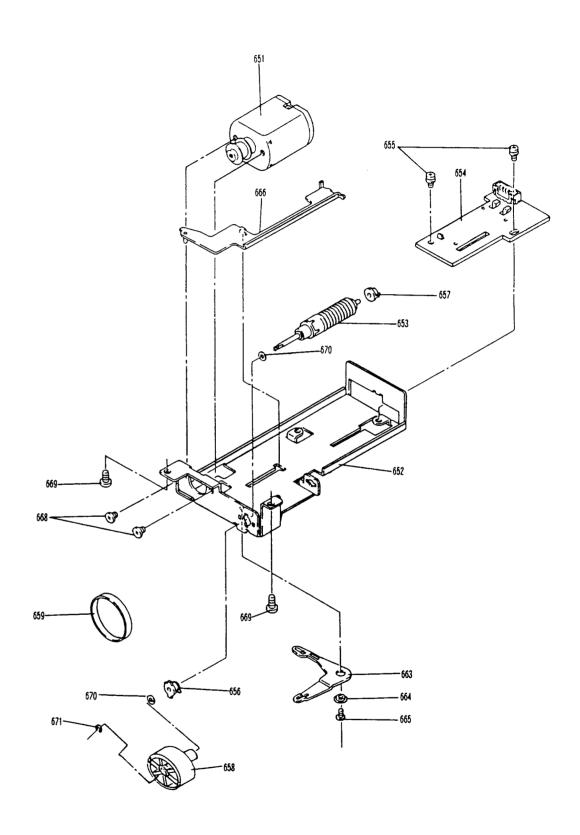
EXPLODED VIEW (CABINET 1)



EXPLODED VIEW (CABINET 2)

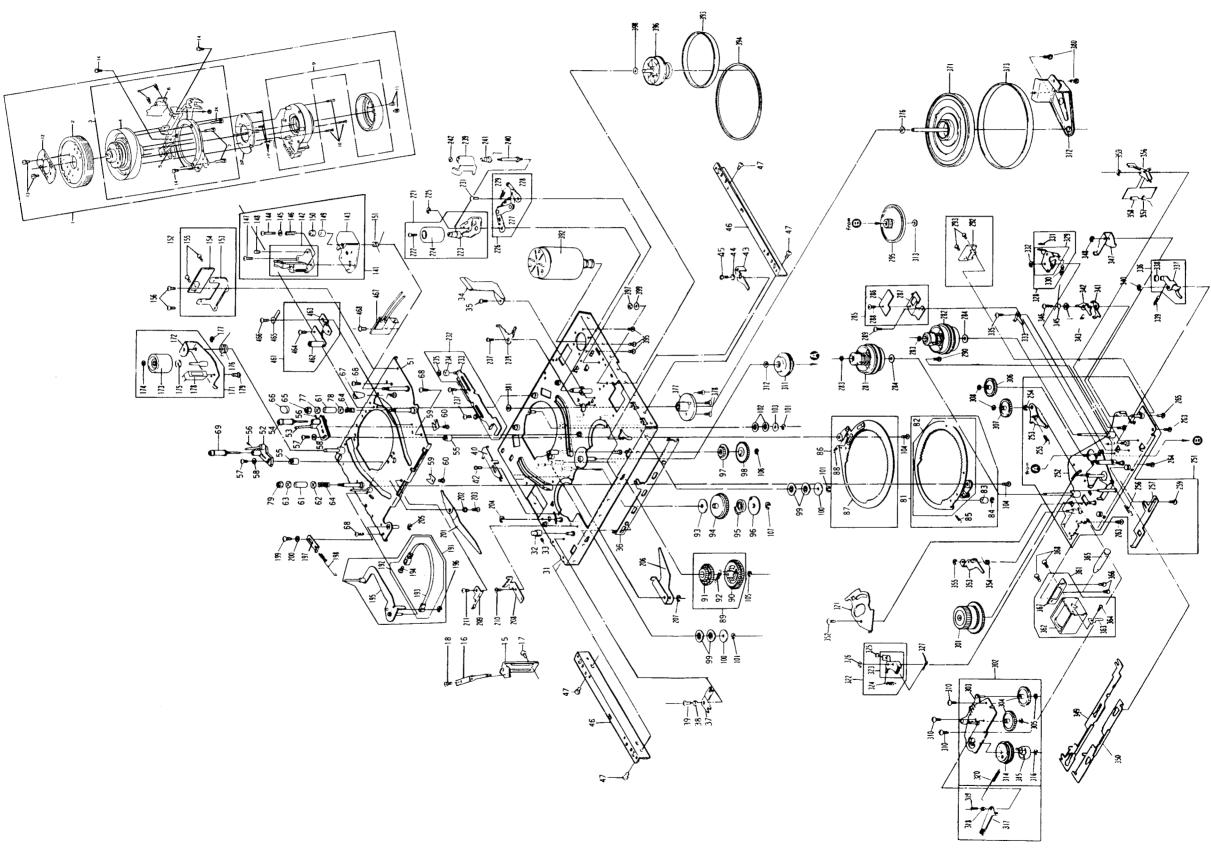
EXPLODED VIEW (DECK 1)



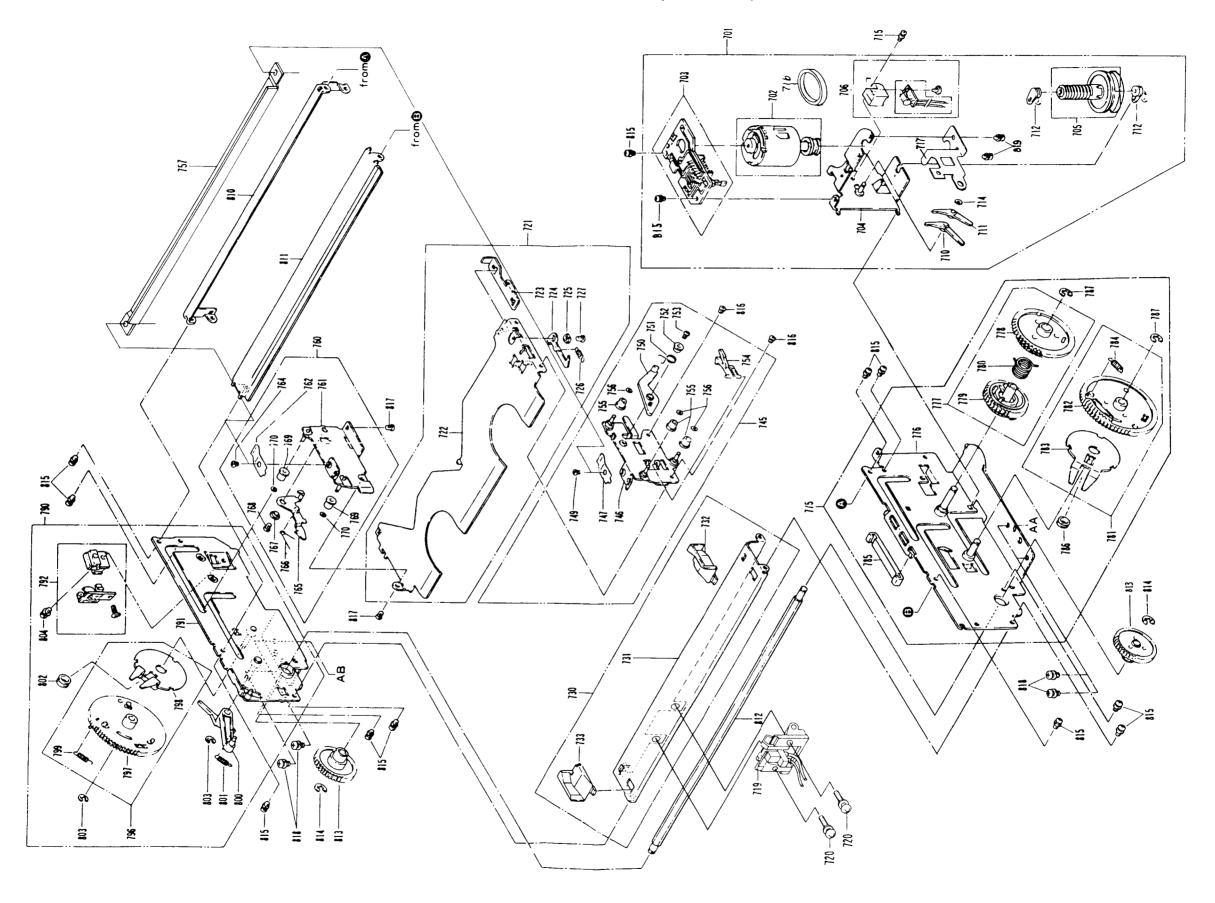


EXPLODED VIEW (DECK 2)

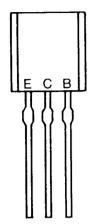
a operation de la companie de la compa



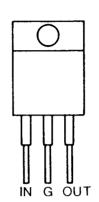
EXPLODED VIEW (DECK 3)



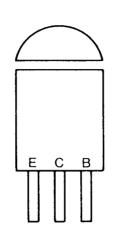
LEAD IDENTIFICATION 1 (IC, Transistor)



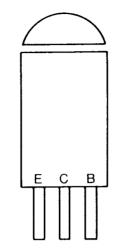
2SA933 2SC1740 2SA608SP 2SA1317 2SC536SP 2SC2839 2SK128 2SD1468SP 2SD1012



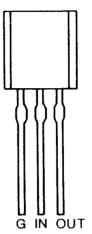
AN78M05F NJM78M05FA AN7812F NJM7812FA AN7818F NJM7818FA



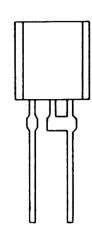
2SC1741A 2SC2058 2SA1038 2SA1016 K



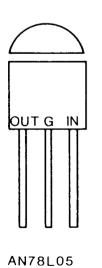
2SA934 2SC2060 2SB1010 2SD1384 2SB892 2SD400 2SD1207



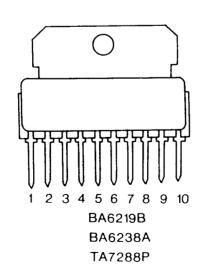
DTA124 DTC124 DTA143X DTC144 2SC3400 2SA1346

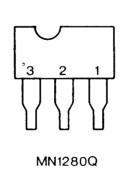


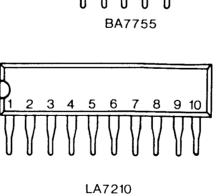
μPC574J



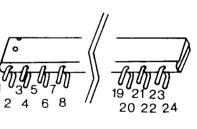
NJM78L05A





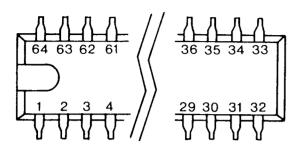




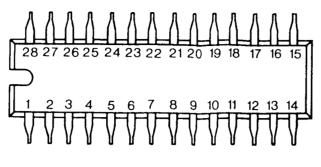


BA7751LS BA7751ALS

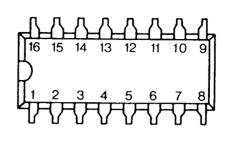
LEAD IDENTIFICATION 2 (IC, Transistor)



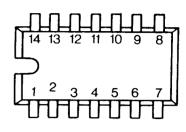
14DN244 C 14DN260



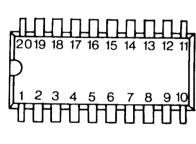
14DN300



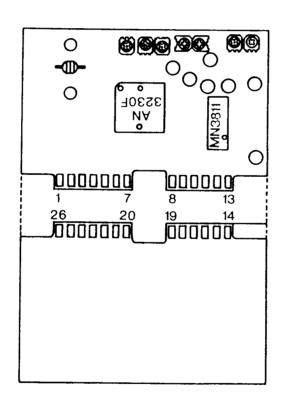
LA7913 MN1225



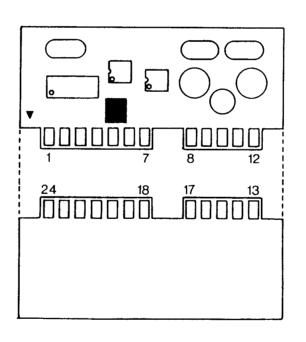
AN6912 LA6339 BA10339 NJM2901N



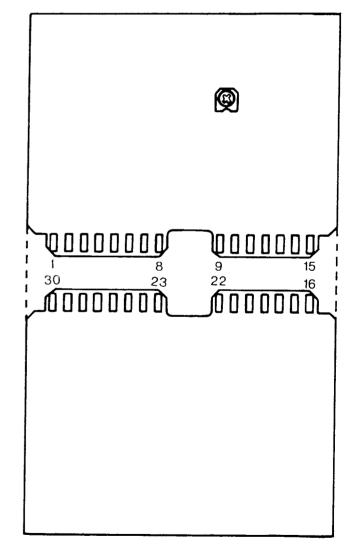
AN3331K



1812119 (VIDEO- Y) HIC 51



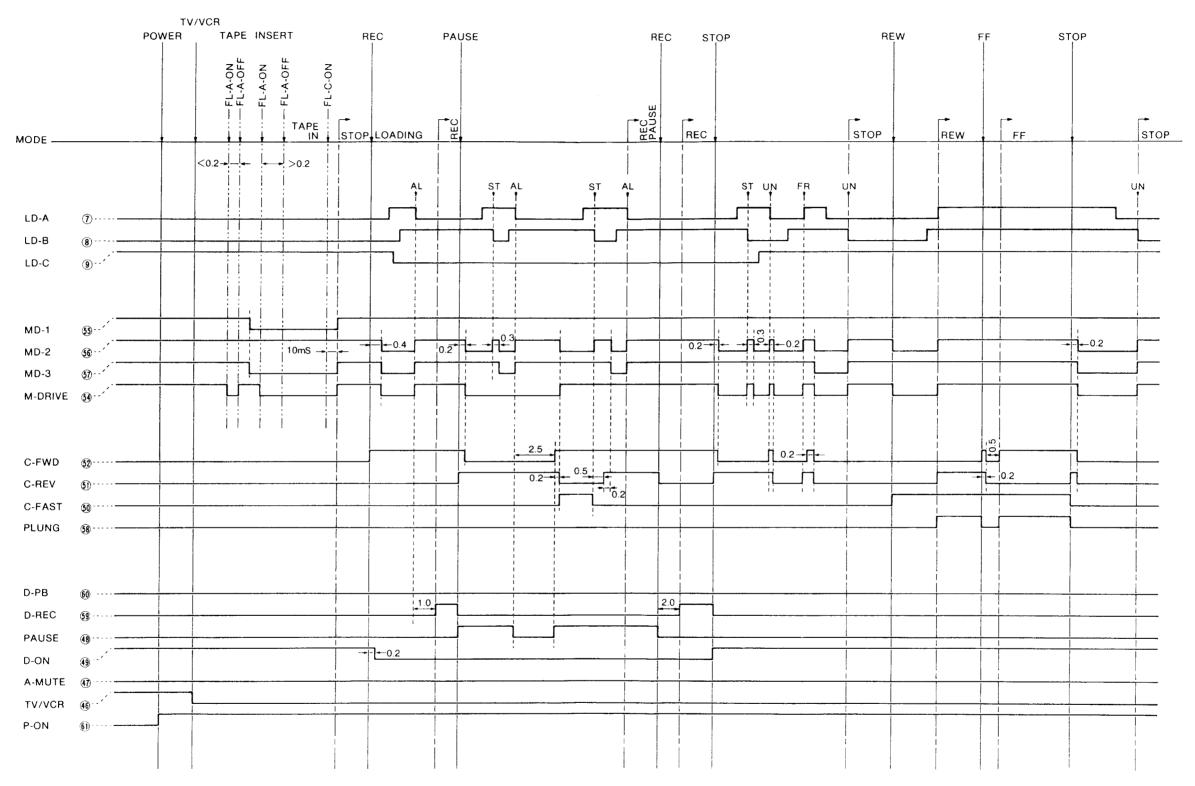
1812120 (SERVO) HIC 401



1812117 (VIDEO-C) HIC 101

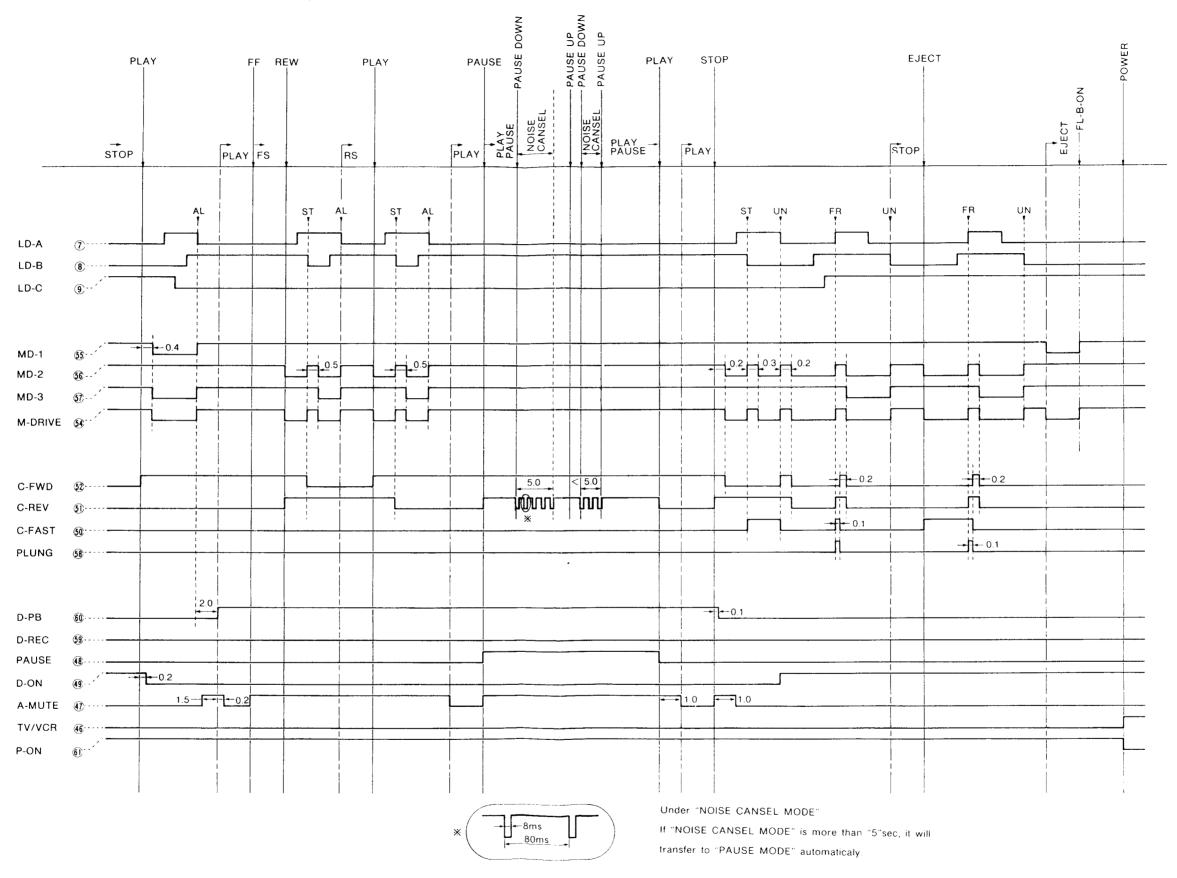
SYSTEM CONTROL TIMING CHARTS

1 POWER→TV/VCR→TAPE INSERT→REC→PAUSE→REC→STOP→REW→FF→STOP

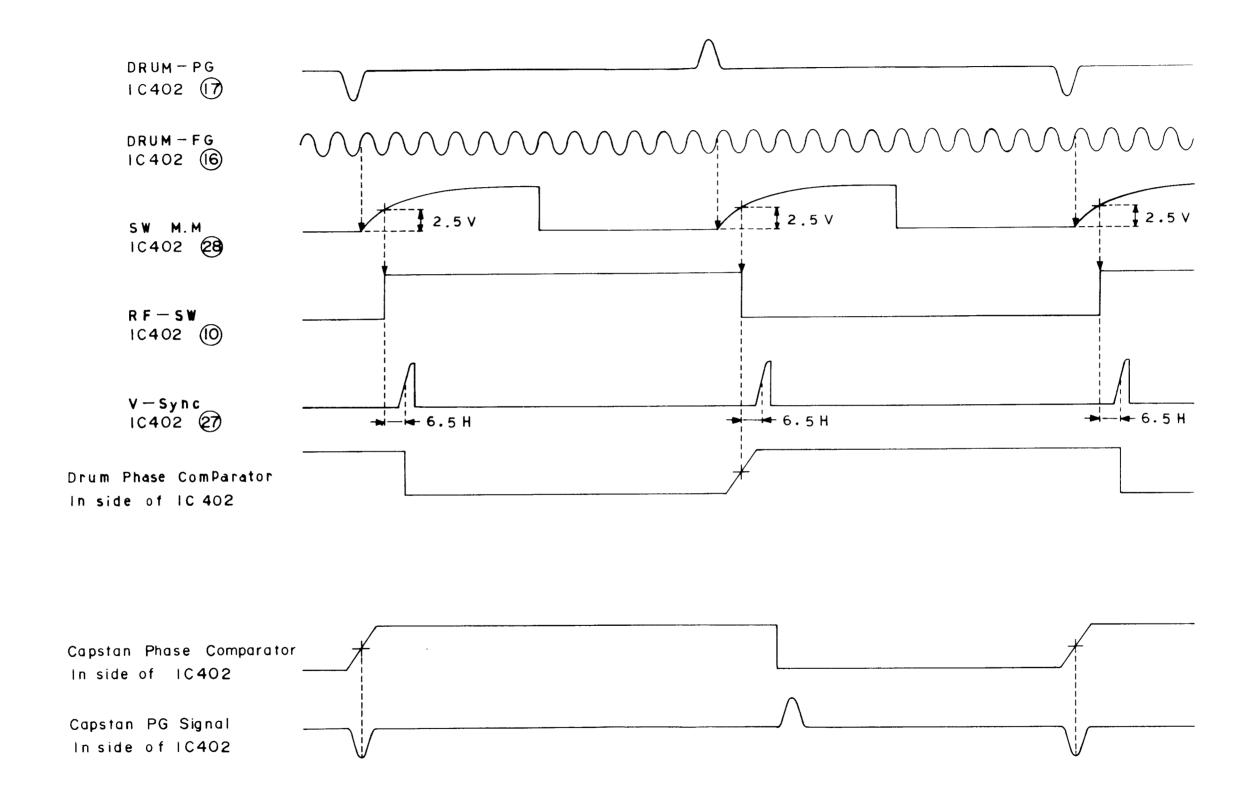


NOTICE

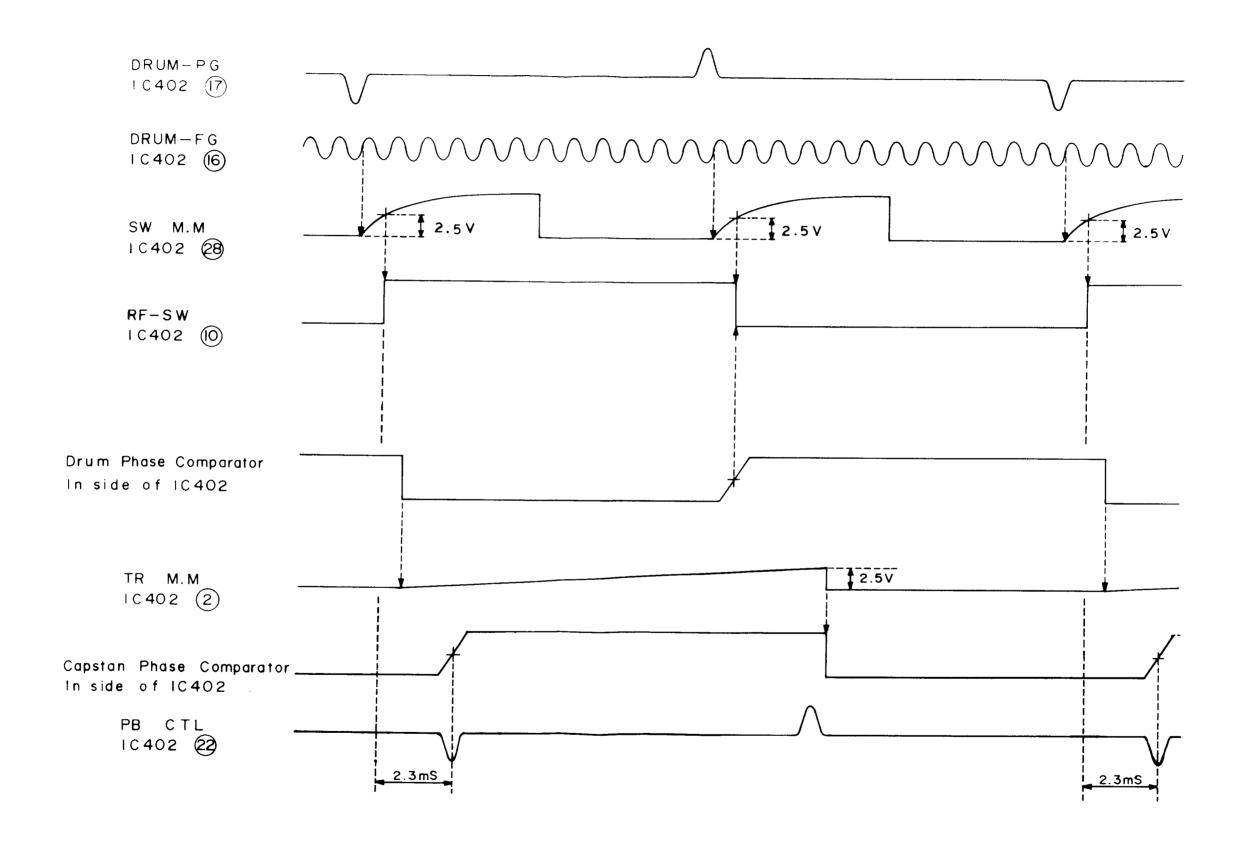
All time values are in second.



DRUM AND CAPSTAN TIMING CHARTS (RECORD MODE)

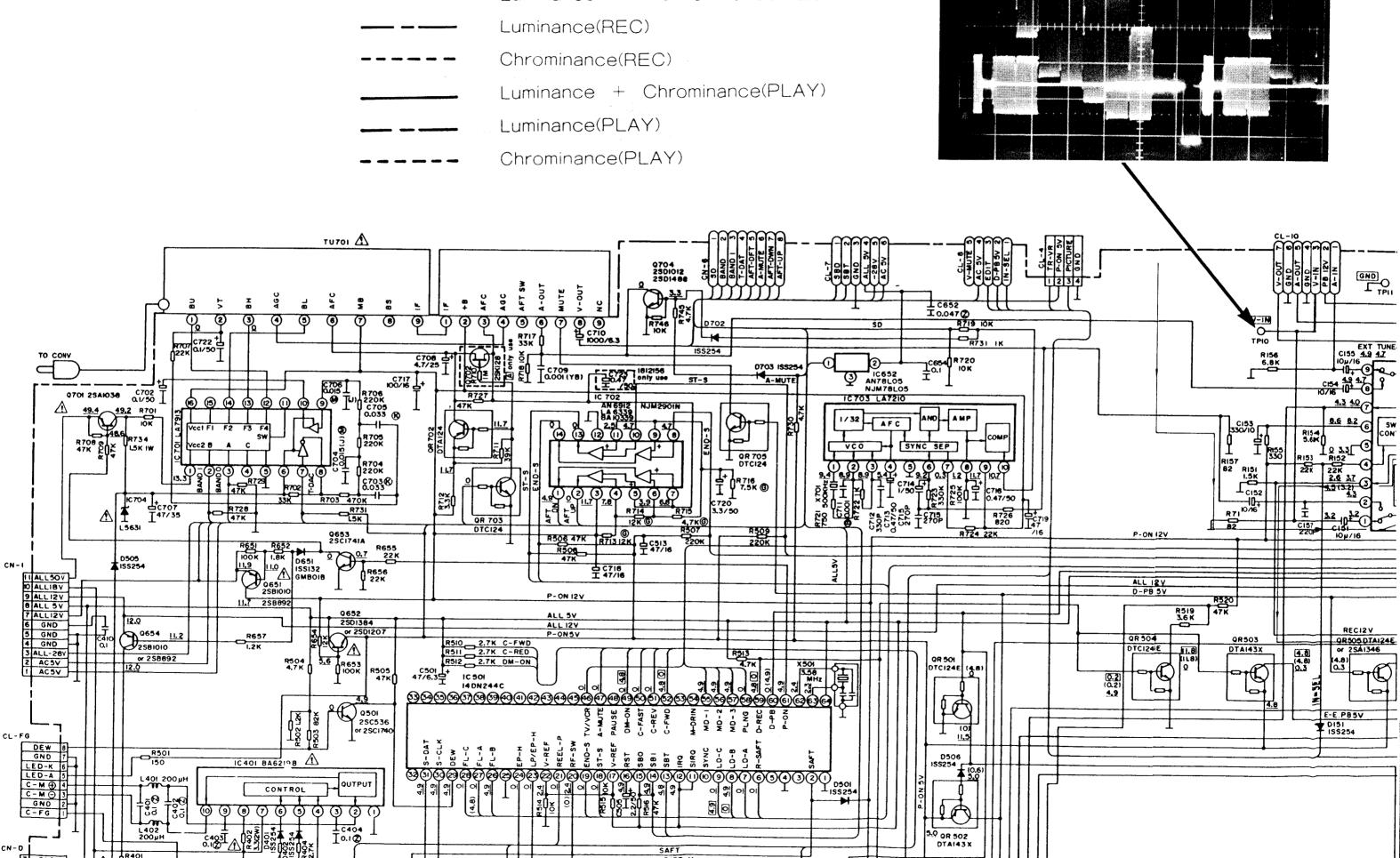


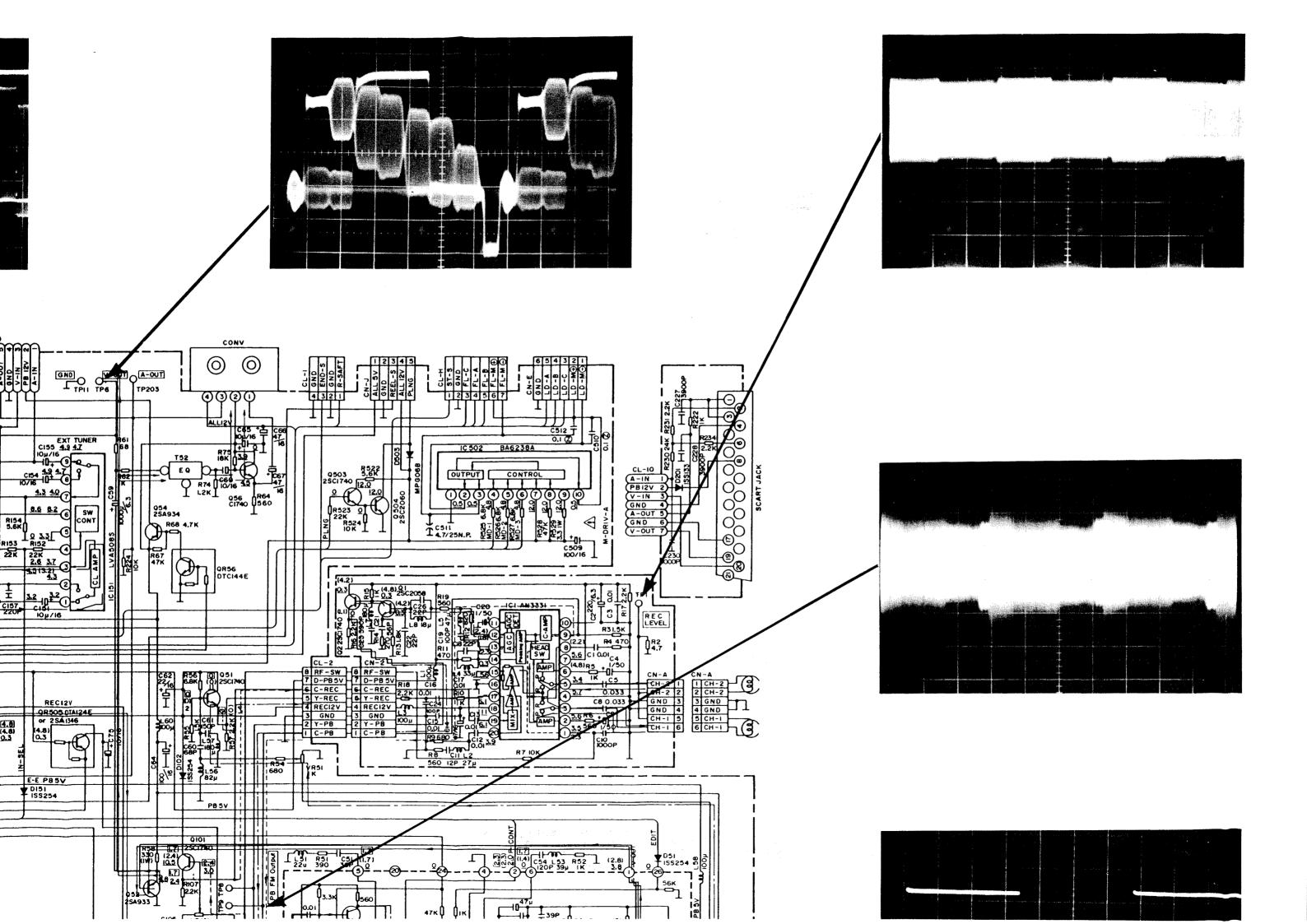
DRUM AND CAPSTAN TIMING CHARTS (PLAYBACK MODE)

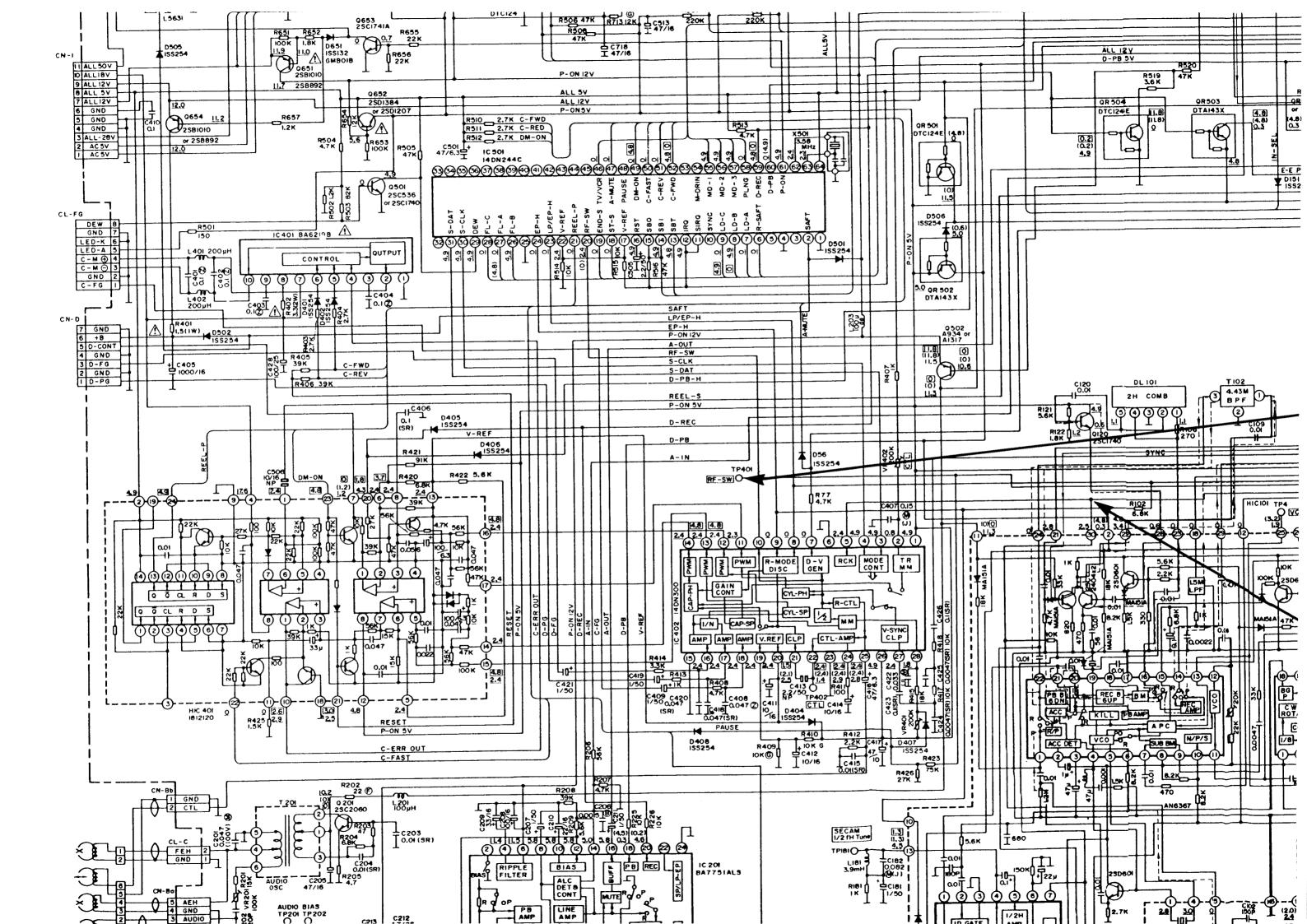


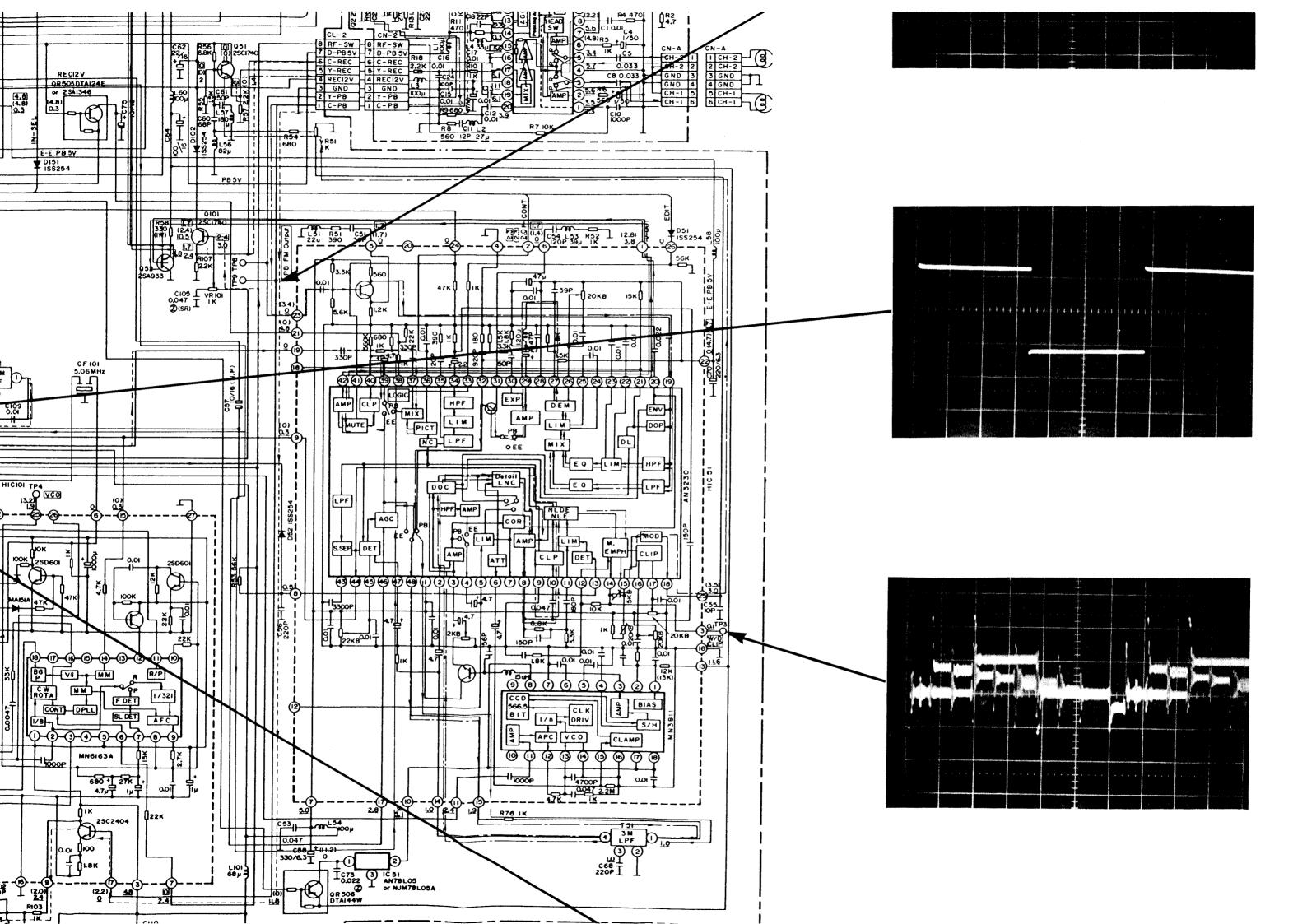
SCHEMATIC DIAGRAM Video/Audio Chrominance(REC) Luminance + Luminance(REC) Chrominance(REC)

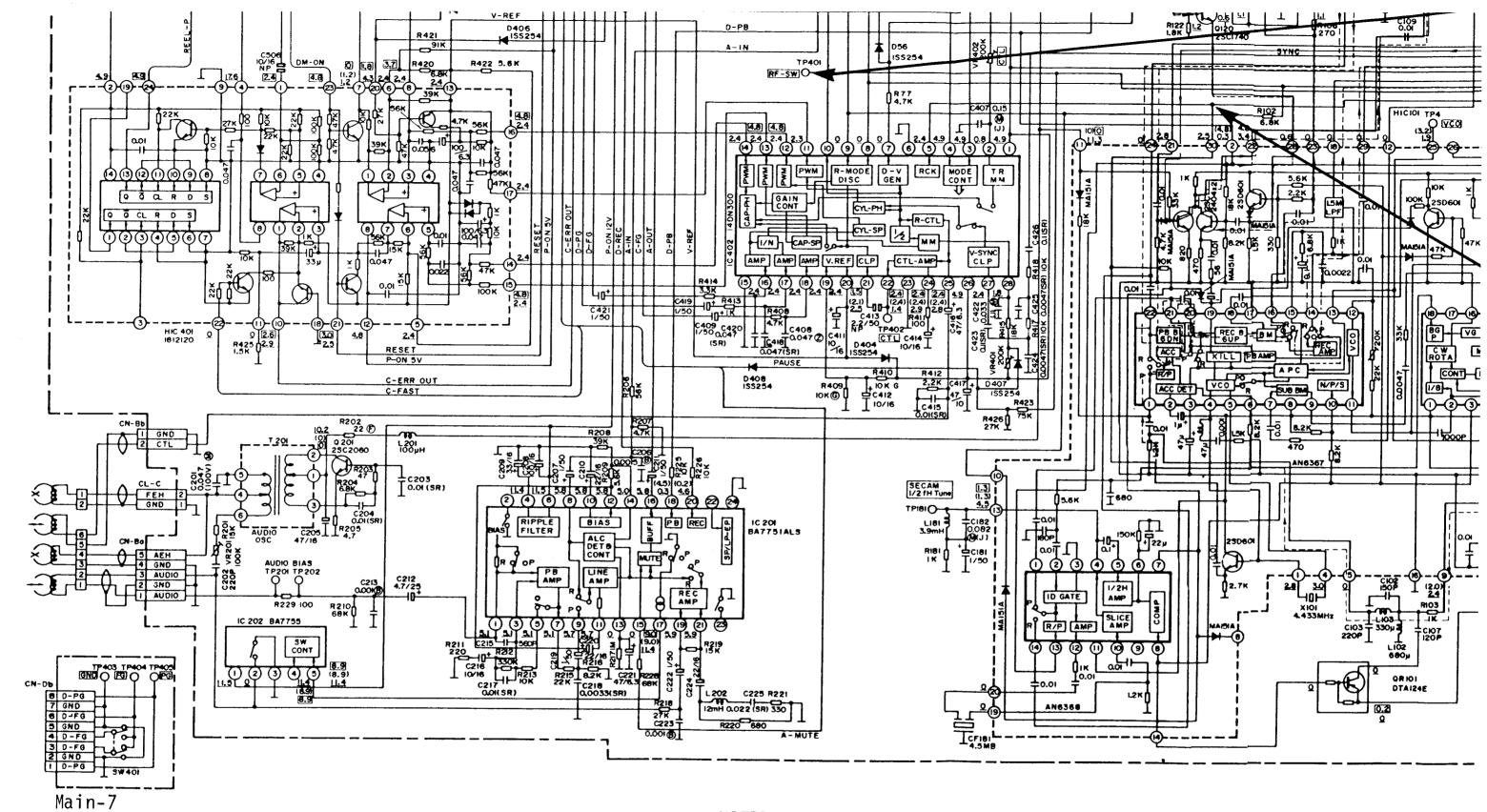
Luminance + Chrominance(PLAY) Luminance(PLAY)











NOTE: All voltages are DC measured with a SSVM.

New FTZ

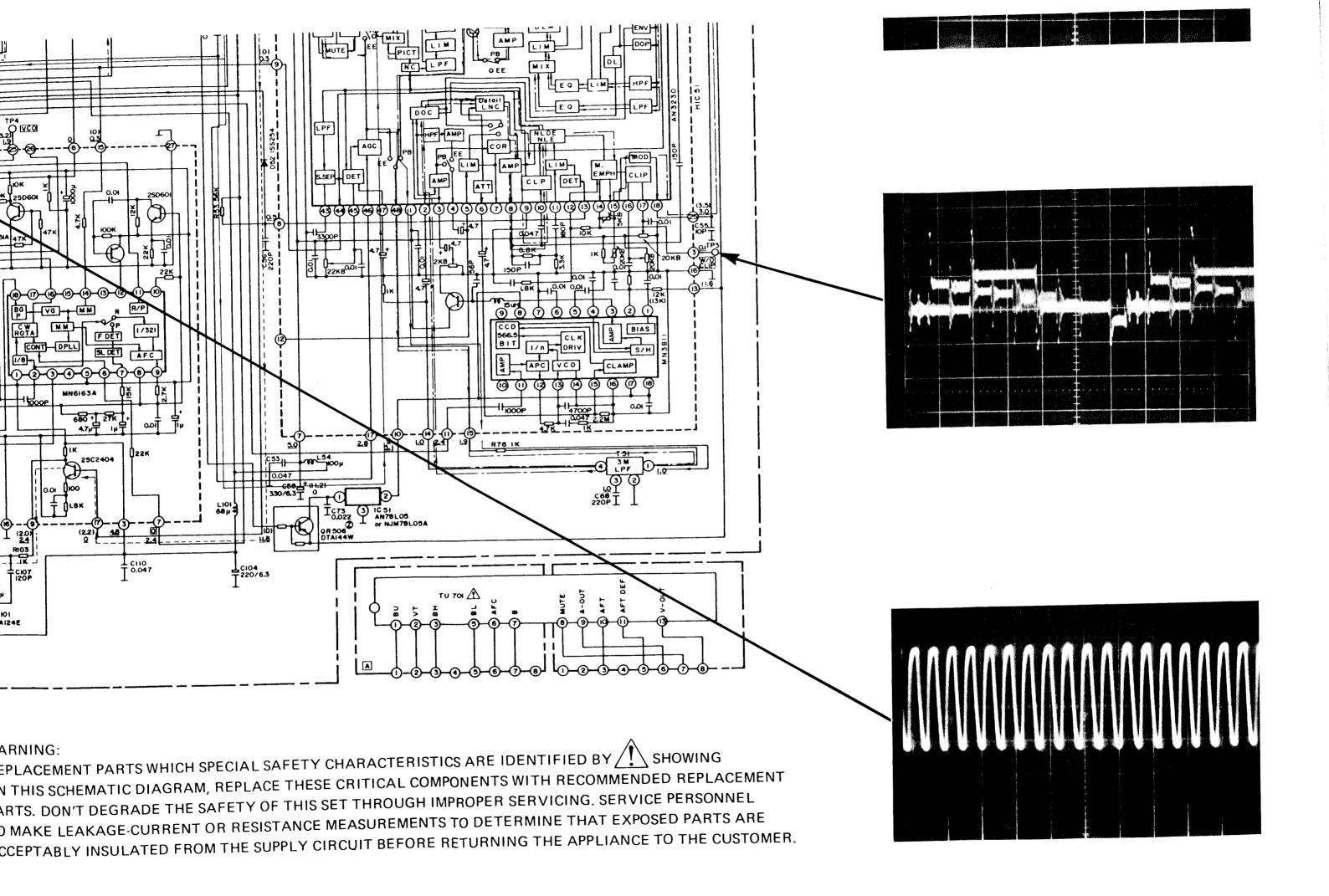
The DC voltage measured at E-E mode.

: at record mode.)
: at playback mode.)
: Fusing resistor.

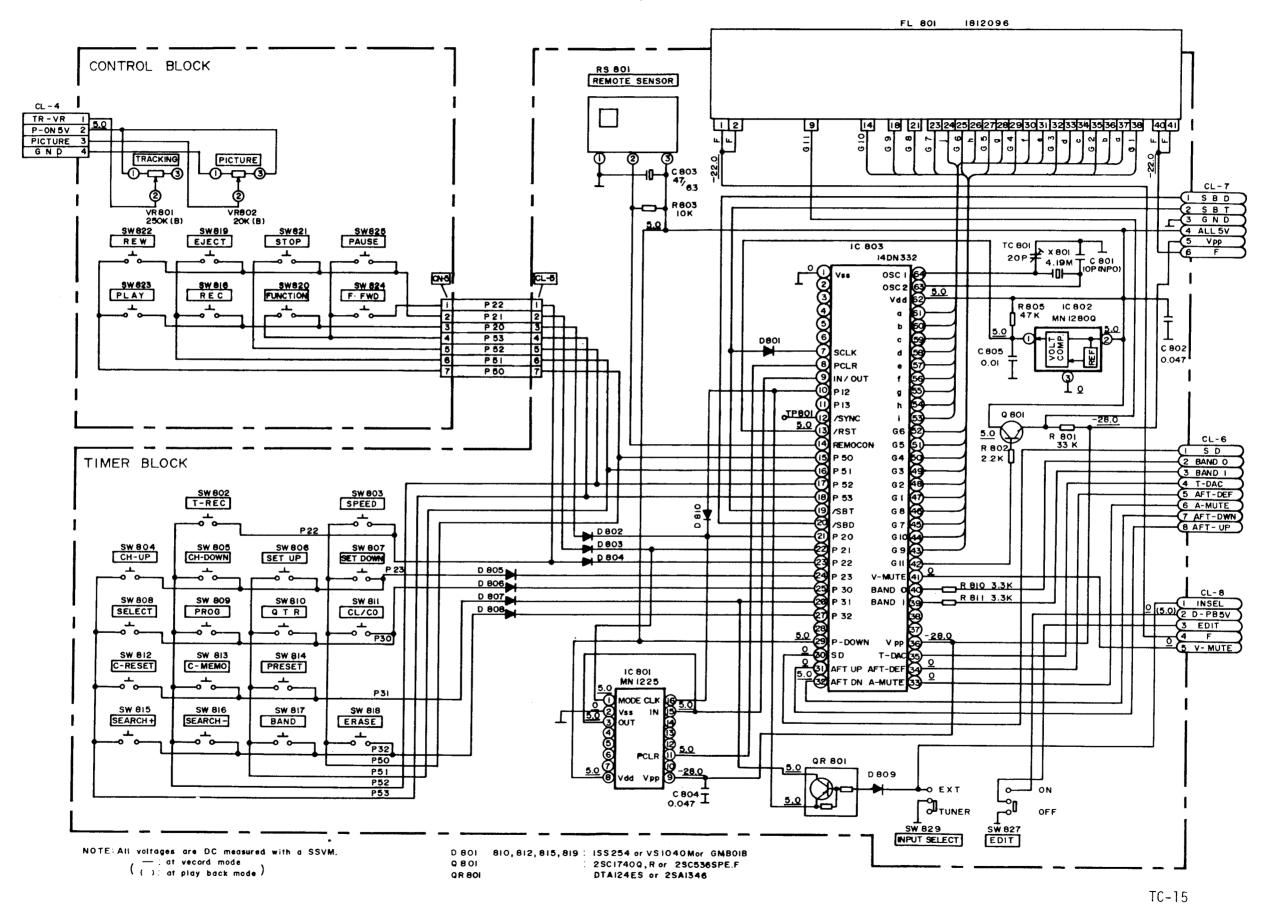
NOTES:

- 1. ALL RESISTANCE VALUES ARE INDICATED IN OHM (K = 103, M=106).
- 2. ALL CAPACITANCE VALUES ARE INDICATED IN μ F (P = $10^{-6} \mu$ F).
- 3. VOLTAGES ARE MEASURED WITH SSVM (Z: > 10K OHM) FRONT POINT INDI-CATED TO CHASSIS GROUND AT NO SIGNAL CONDITION UNLESS OTHERWISE NOTED. (SEE VOLTAGE CHART.)
- 4. CAPACITOR TYPES ARE (PL) = POLYPROPYLANE, (SC) = SEMI-CONDUCTIVE, (M) = MYLAR, OTHERS ARE CERAMIC.

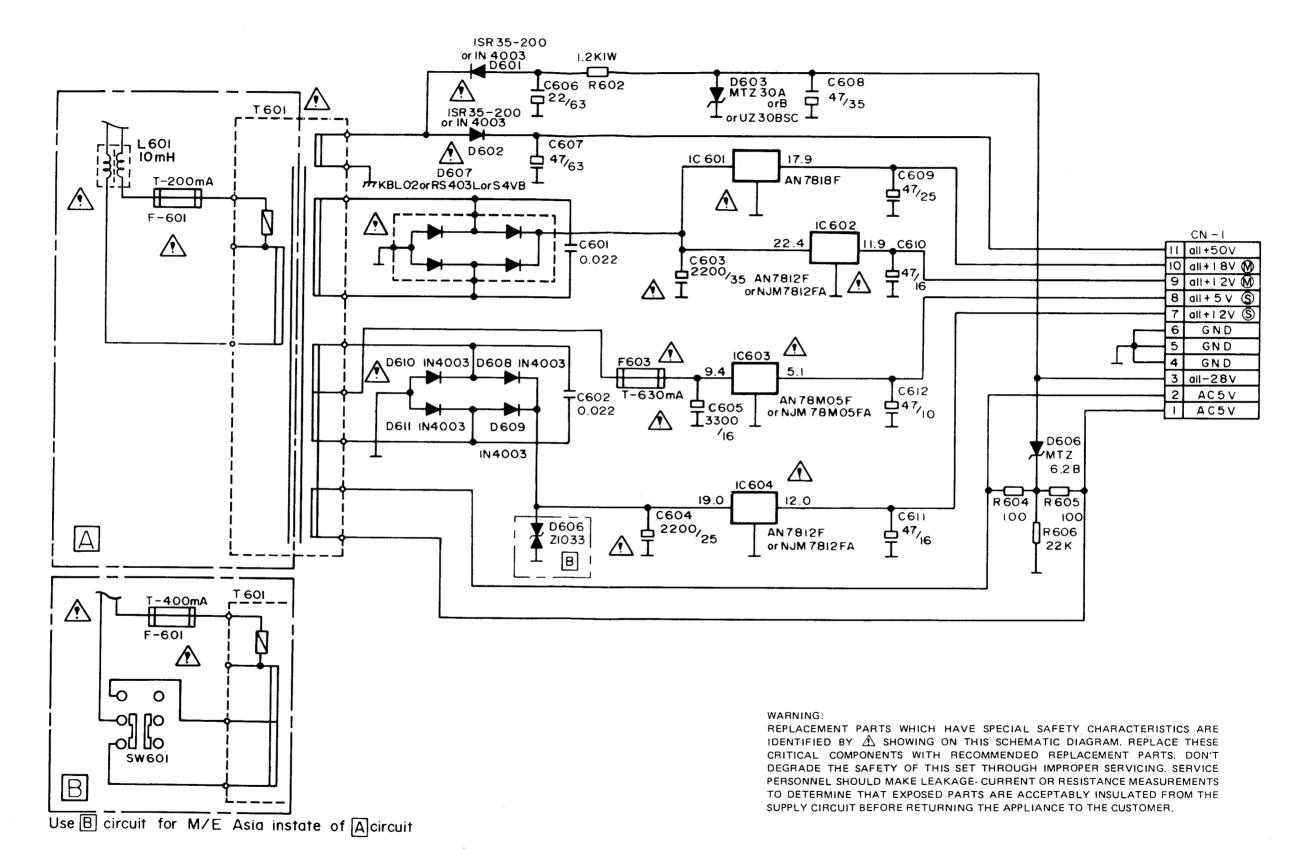
WARNING: REPLACEMI ON THIS SC PARTS. DON TO MAKE LI ACCEPTABL



SCHEMATIC DIAGRAM (CONTROL/TIMER)



SCHEMATIC DIAGRAM Power Supply



ELECTRICAL PARTS LIST

(PRV16)

Ref. No		Description	Parts No.
	POB Ass'y, Head	AMP	1613906X
	Capacitors		L
C1 C2 C3 C4 C5 C8 C9 C10 C11 C12-13 C14 C15-17 C18 C19 C20 C21 C22 C23 C24 C25-26	Ceramic Electrolytic Ceramic	0.01 \(\mu\text{F}\) \(\sigma\text{50V} \\ +80/ \ -20\text{96} \\ 220 \(\mu\text{F}\) \(\sigma\text{50V} \\ +80/ \ -20\text{96} \\ 0.01 \(\mu\text{F}\) \(\sigma\text{50V} \\ +80/ \ -20\text{96} \\ 0.033 \(\mu\text{F}\) \(\sigma\text{50V} \\ +80/ \ -20\text{96} \\ 0.033 \(\mu\text{F}\) \(\sigma\text{50V} \\ +80/ \ -20\text{96} \\ 1000\text{pF}\) \(\sigma\text{50V} \\ \sigma\text{50V} \\ 120\text{pF}\) \(\sigma\text{50V} \\ \sigma\text{50}\text{9} \\ 0.01 \(\mu\text{F}\) \(\sigma\text{50V} \\ +80/ \ -20\text{96} \\ 47 \(\mu\text{F}\) \(\sigma\text{50V} \\ +80/ \ -20\text{96} \\ 47 \(\mu\text{F}\) \(\sigma\text{50V} \\ +80/ \ -20\text{96} \\ 0.01 \(\mu\text{F}\) \(\sigma\text{50V} \\ +80/ \ -20\text{96} \\ 22 \(\text{pF}\) \(\sigma\text{50V} \\ \s	1220842 5260227 1220887 1220887 1220887 1220887 526W105 1283102 1270120 1220842 526T476 1220842 1270220 1270101 526W105 1270560
	Coils		
1.1 1.2 1.3 1.4 1.5 1.6	Microinductor Microinductor Microinductor Microinductor Microinductor Not used	100 µH 27 µH 100 µH 33 µH 47 µH	2162101 2162270 2162101 2162330 2162470
L7 L8	Microinductor Microinductor	180 μH 18 μH	2162181 2162180
	IC		
IC1	AN3331K (Li	near)(Nead AMP.)	14LN235
	Resistors		
R1 R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R13 R14	Not used Carton	4.7 chm 1 5W ±5 % 1.5k chm 1 5W ±5 % 470 chm 1 5W ±5 % 1k chm 1 5W ±5 % 1k chm 1 5W ±5 % 560 chm 1 5W ±5 % 560 chm 1 5W ±5 % 680 chm 1 5W ±5 % 470 chm 1 5W ±5 % 820 chm 1 5W ±5 % 820 chm 1 5W ±5 % 820 chm 1 5W ±5 % 1.8k chm 1 5W ±5 % 560 chm 1 5W ±5 % 560 chm 1 5W ±5 %	1324479 1324152 1324102 1324561 1324103 1324561 1324681 1324681 1324102 1324471 1324821 1324182 1324271 1324222 1324261
7	rasistors		·
)1	29C2839EF or 29C	2058QR	C2839EF or
)2	250336SPF or 25	C1740QR	C2058QR C536SEF or C1740QR
М	iscellaneous		
N-A N-2	Cornector Base Cornector Base Snield Plate, To Shield Plate, Bo	\$P >	1770147 1770264 6S50321 6S50322

Ref. No		Description	Parts No.
		FOB Ass' y, Main	1613937AX
			1010301/M
C51 C54 C55	Ceranic Ceranic Ceranic	Capacitors 39 pF /50V ±5 % St, 120 pF /50V ±5 % St, 10 pF /50V ±5 % St,	1270390 1270121 1270100
C56 C57 C58 C59	Ceramic Electrolytic Electrolytic Electrolytic	10 pF / 50V ±5 % S. 220 pF / 50V ±5 % S. 10 µF / 16V ±20% (N.P.) 330 µF / 6.3V ±20% 1000 µF / 6.3V ±20%	1270221 126U106 126A337 126A108
C60 C61 C62 C63 C64	Ceramic Electrolytic Not used Electrolytic	150 pF /50V ±5 % SL 22 μF /16V ±20%	1270680 1270151 126C226
C65 C66-67 C68 C69 C70	Electrolytic Electrolytic Ceramic Electrolytic Electrolytic	10 µF /16V ±20% 47 µF /16V ±20% 220 pF /50V ±5 % SL 10 µF /16V ±20% 220 µF /6. 3V ±20%	126C106 126C476 1270221 126C106 126A227
C71-72 C73 C74 C75	Not used Ceramic Not used Electrolytic	0. 022 μF /50V +80/ -20% 10 μF /16V ±20%	12F3223 126C106
C101 C102 C103	Not used Ceramic Ceramic	150 pF /50V ±5 % St. 220 pF /50V ±5 % St.	1270151 1270221
C104 C105 C106 C107 C108	Electrolytic Sami-conductive Not used Ceramic Not used	220 µF /6.3V ±20% 0.047 µF /16V +80/ -20% 120 µF /50V ±5 % SL	126A227 1220523 1270121
C109 C120 C151-152 C153 C154-155 C156	Ceranic Ceranic Electrolytic Electrolytic Electrolytic Not used	$\begin{array}{ccccc} 0.01\mu\text{F} & 50\text{V} & +80\text{V} & -20\% \\ 0.01\mu\text{F} & 50\text{V} & +80\text{V} & -20\% \\ 10\mu\text{F} & 16\text{V} & \pm20\% \\ 330\mu\text{F} & 10\text{W} & \pm20\% \\ 10\mu\text{F} & 16\text{V} & \pm20\% \end{array}$	12F3103 12F3103 126C106 126B337 126C106
C181 C182	Electrolytic Polyester Film	$1 \mu F / 50V \pm 20\%$ 0. 082 $\mu F / 50V \pm 20\%$	126F105 1254823
C201 C202 C203-204 C205 C206 C207 C208 C209 C210 C211 C212 C213 C214-215	Polyester Film Ceramic Semi-conductive Electrolytic Ceramic Electrolytic Electrolytic Electrolytic Electrolytic Electrolytic Ceramic Not used	220 pF /50V ±5 % SL	1255473 1270221 12Y2103 126C476 1283152 126F105 126C107 126C336 126C226 126F105 126D475 1283102
C216 C217 C218 C219 C220 C221 C222 C223 C224 C225 C401-404	Electrolytic Sami-conductive Semi-conductive Electrolytic Electrolytic Electrolytic Electrolytic Ceramic Electrolytic Semi-conductive Semi-conductive	$\begin{array}{c} 10\mu\mathrm{F} \ /16\mathrm{V} \ \pm 20\% \\ 0.01\mu\mathrm{F} \ /25\mathrm{V} \ \pm 10\% \\ 0.0033\mu\mathrm{F} \ /25\mathrm{V} \ \pm 10\% \\ 0.0033\mu\mathrm{F} \ /25\mathrm{V} \ \pm 10\% \\ 1\mu\mathrm{F} \ /50\mathrm{V} \ \pm 20\% \\ 22\mu\mathrm{F} \ /16\mathrm{V} \ \pm 20\% \\ 47\mu\mathrm{F} \ /6.3\mathrm{V} \ \pm 20\% \\ 1\mu\mathrm{F} \ /50\mathrm{V} \ \pm 20\% \\ 0.001\mu\mathrm{F} \ /50\mathrm{V} \ \pm 10\% \ \mathrm{YB} \\ 22\mu\mathrm{F} \ /16\mathrm{V} \ \pm 20\% \\ 0.022\mu\mathrm{F} \ /25\mathrm{V} \ \pm 10\% \\ 0.1\mu\mathrm{F} \ /25\mathrm{V} \ +80\mathrm{V} \ -20\% \end{array}$	120C106 12Y2103 12Y2332 126F105 126C226 126A476 126F105 1283102 128C226 12Y2223 12Y2223 12Y2461 or
C405 C406 C407 C408 C409 C410	Electrolytic Semi-conductive Polyester Film Semi-conductive Electrolytic Not used	1000 μF /16V ±20% 0.1 μF /12V ±10% 0.15 μF /50V ±5 % 0.047 μF /16V +80/ -20% 1 μF /50V ±20%	626C108 12Y1104 1254154 1220523 126F105
CH11-412 CH13 CH14 CH15 CH16 CH17 CH18 CH19 CH20 CH21	Electrolytic Electrolytic Somi-conductive Electrolytic Semi-conductive Electrolytic Somi-conductive Electrolytic Somi-conductive Electrolytic	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	126C106 126X225 126C106 12Y2103 126A476 120B476 12Y2473 126F105 12Y2473 126F105

Ref. No		Description	Parts No.
C422	Dolumeter Eile		
C423	Polyester Film Semi-conductive		1254333 12Y1104
C124-425		0.0047 μF /25V ±10%	12Y2472
CA26 CA27	Sami-conductive Not used	0.1 μF /12V ±10%	1271104
C/128		100 μF /25V ±20%	126D107
C501 C502	Electrolytic Not used		126A476
C505 C506	Electrolytic Electrolytic	2.2 μF /50V ±20% 10 μF /16V ±20% (N.P.)	126F225 126U106
C507 C509	Not used Electrolytic		
C510	Semi-conductive		126C107 1220461 or 1220520
C511 C512	Electrolytic Semi-conductive		126V475 1220461 or
C513	Electrolytic	47 μF /16V ±20%	1220520 126C476
C514-600 C601-651	Not used See Power Supply	PCB	
C652	Semi-conductive	0. 047 μ F /16V +80/ -20%	1220523
C653 C654	Not used Semi-conductive	$0.1\mu \text{F}$ /25V +80/ -20%	1220461 or 1220520
C702	Electrolytic	0 1 vt \\ \text{FOV} +200\(\)	
C703	Semi-conductive	$0.1 \mu F / 50V \pm 20\%$ $0.033 \mu F / 50V \pm 10\%$	126F104 1220786
C704	Polyester Film Semi-conductive Polyester Film	0. 015 μF /50V ±5 % 0. 033 μF /50V ±10%	1254153
C705 C706	Semi-conductive	0.033 μF /50V ±10%	1220786
C707	Electrolytic	47 uF \(\sigma 35V \) \(\pm 20\)	1254153 126E476
C708	Electrolytic Electrolytic	4.7 µF /25V ±20% 0.001 µF /50V ±10% YB 1000 µF /5.3V ±20% 0.001 µF /50V ±10% YB	126D475
C709 C710	Ceramic Electrolytic	$0.001 \mu\text{F} / 50V \pm 10\% \text{YB}$	12R3102
C711	Ceramic	0.001 μF /50V ±10% YB	126A108 12B3102
C712	Ceramic	330 pF /50V ±5 % SL 0. 47 μF /50V ±20% 1 μF /50V ±20%	1270331
C713 C714	Electrolytic Electrolytic	0. 47 μF /50V ±20% 1 μF /50V ±20%	126F474 126F105
C715		270 pt /500 L Q	1270271
C716 C717	Electrolytic	270 pF /50V J SL 0. 47 μF /50V ±20% 100 μF /16V ±20%	126F474
C718-719	Electrolytic Electrolytic Electrolytic	41 HF / IBV ±20%	126C107 126C476
C720	Electrolytic	$3.3 \mu F /50V \pm 20\%$	126F335
C721 C722	Not used	0.1 μF /50V ±20%	126F104
C723	Electrolytic Electrolytic	0. 47 μF /50V ±20%	126F474
<u> </u>	т	Coils	
I.51 1.52	Microinductor Not used	22μ H	2162220
1.53 1.54	Microinductor Microinductor	39 μΠ 100 μΠ	2162390 2162101
L55 L56	Not used Microinductor	9211	
L57	Microinductor	82 μΗ 180 μΗ	2162820 2162181
L58	Microinductor	$100\mu\mathrm{H}$	2162101
L59 L60	Not used Microinductor	100μ H	2162101
L101 L102	Microinductor Microinductor	68 µН 680 µН	2162680 117M491 or
L103	Microinductor	330 μH	117D491 2162331
L181	Microinductor	3. 9m H	113M575
L201 L202	Microinductor	100 μH	2162101
L203	Microinductor Microinductor	12 mH 100 µH	117M502 or 117D472 2162101
L401-402	Chake	200 μH	117B441
T52	EQ		1810585 or
T201	Audio Bias OSC		1810710 113 M 686 or
		Diodes	1130686
D51-52	US1040M or 188254 c CMB01B	or I	US1040M or 1SS254 or CMMOIB

	Ref. No	Description	Parts No.
	D56	US1040M or 1SS254 or	US1040M or
İ	- 00	GMEOIB	ISS254 or GMPOIB
	D102	US1040M or ISS254 or CMB01B	US1040M or 1SS254 or
	D151	US1040M or 188254 or (MIO)B	CMEOTB US1040M or 188254 or
	D401-402	US1040M or ISS254 or CMBOIB	US1040M or 1SS254 or
	D404-408	US1040M or 1SS254 or CMTOIB	CMIXOIB US1040M or 1SS254 or
	D501-502	US1040M or 1SS254 or OMEO1B	CMBO1B US1040M or 188254 or
l	D503	MECO6B	CMEO1B MPGO6B
	D505-506	US1040M or 1SS254 or CNLOIB	US1040M or 1SS254 or
	D651	155132 or OMOIB	GMEOIB 1SS132 or
	D702-703	US104(M or 188254 or GMIX)1B	CMEOTIB US1040M or ISS254 or CMEOTIB
ŀ		Filters	144010
ŀ	T51	LPF 3Miz	1810805 or
ŀ	T101	LPF 1.5Mbz	1810994 113M621 or
ŀ	T102	BFF 4. 43M iz	113D621 1810770 or
	F 101	Ceramic 5.06MHz (RPF)	1810804 1810497
	OF 181 OC 101	Ceramic 4.5MHz Corb Filter	1810359 1812112 or 1812215
ŀ		l Cs	1012213
ŀ	IC51	NJM78L05A or AN78L05 (Linear)	J781.05A or
,	C52	(3teuminal Voltage Regulator) Not usexi	AN781.05
	C151 C201	LVA508S (Linear) (Input Selector) BA7751LS or BA7751ALS (Linear) (Audio)	14L0187 14L0200
	C202 C401	BA7755 (Linear) (R /P Switch) BA6219B (Linear) (Capstan Drive)	14LF236 14LF232
1	C402 C501	MN6748FVAA (Albs /Other) (Servo)	14DN300
ı	C502	MN158461FVU-6 (Mos /Micro Processor) (Sys-Con) BM6238A or TA7288P (Lineae)	14DN244C
	C652	BAG238A or TA7288P (Lineae) (Loading Motor Drive) NJM78LOSA or AV78LOS (Linear)	14LW198
ŀ	C701	(3tenninal Voltage Regulator)	J781.05A or AN781.05
	C702	LA7913 (Linear) (Band Selector & MMP) M6912 or LA6339 (Linear) (Camparator) BA10339 (Linear) or NM2901N (Linear)	14LQ237 AN6912 or LA6339 or BA10339 or
	C703 C704	LA7210 (Linear) (Sync Sepa) L5631 (Linear) (Voltage Regulator)	NJM2901N 14LQ115 L5631
H	IC101	Hybrid Y (Other) (Luninance) Hybrid C (Other) (Color) Hybrid Servo (Other)	1812119 1812117 1812120
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	MCV1U1		
Ref. No		Description	Parts No.
		Jacks	
J1	Not used		
J2 J3	RCA (Will Not used	nite)	1780078
j4		nite)	1780078
	• • • • • • • • • • • • • • • • • • • •	Resistors	
R51	Carton	390 chm 1/5W ±5 %	1324391
R52 R53	Cartxon Cartxon	1k chm 1/5W ±5 % 56k chm 1/5W ±5 %	1324102 1324563
R54 R55	Carton Carton	680 chm 1/5W ±5 % 1.5k chm 1/5W ±5 %	1324681
R56	Carton	6.8k chm 1∕5W ±5 %	1324152 1324682
R57 R58	Carbon Oxide Film	2.2k chm 1∕5W ±5 % 330 chm 1W ±5 %	1324222 1330419 or
R59-60	Not used		1330363
R61 R62	Carbon Carbon	68 ohm 1/5W ±5 %	1324680
R63	Not used	1k chm 1∕5W ±5 %	1324102
R64 R65-70	Carbon Not used	560 ohm 1∕5₩ ±5 %	1324561
R71 R73	Carbon Not used	82 ohm 1/5W ±5 %	1324820
R74	Carbon	1. 2k ofm 1 / 5W ±5 %	1324122
R75 R76	Cartson Cartson	18k chm 1∕5W ±5 % 1k chm 1∕5W ±5 %	1324183 1324102
R77 R78-81	Carbon Not used	4. 7k ohm 1/5W ±5 %	1324472
	1	0.01	
R102 R103	Carbon Carbon	6.8k chm 1/5W ±5 % 1k chm 1/5W ±5 %	1324682 1324102
R104~105 R106	Not used Carbon	270 ohm 1/5W ±5 %	1324271
R107	Carton	2. 2k dm 1/5\ ±5 %	1324222
R108-110	Not used		
R121 R122	Carton Carton	5.6k chm 1 / 5W ±5 % 1.8k chm 1 / 5W ±5 %	1324562 1324182
R151	Carton	1. 5k ohm 1/5W ±5 %	1324152
R152-153	Carbon	22k dm 1/5\ ±5 %	1324223
R154 R155	Carbon Carbon	5. 6k chm 1∕5W ±5 % 330 chm 1∕5W ±5 %	1324562 1324331
R156 R157	Cartion Cartion	47k.dm 1./5W ±5 % 82.dm 1./5W ±5 %	1324473 1324820
R181 R201	Cartion Cartion	1k clin 1/5W ±5 %	1324102
R202	Fuse	15k dan 1/5W ±5 % 22 dan 1/4W ±5 %	1324153 5361220
R203 R204	Carton Carton	47 chm 1/5W ±5 % 6.8k chm 1/5W ±5 %	1324470 1324682
R205 R206	Cartxon Cartxon	4.7 chm 1/5W ±5 % 56k chm 1/5W ±5 %	1324479 1324563
R207	Carton	4.7k ohm 1/5W ±5 %	1324472
R208 R209	Carbon Carbon	39k ohm 1∕5W ±5 % 5.6k ohm 1∕5W ±5 %	1324393 1324562
R210 R211	Carbon Carbon	68k chm 1/5W ±5 % 220 chm 1/5W ±5 %	1324683
R212	Carbon	330k chm 1/5W ±5 %	1324221 1324334
R213 R214	Carbon Not used	10k d⋅m 1/5W ±5 %	1324103
R215 R216	Carbon Carbon	22k chm 1/5W ±5 % 8.2k chm 1/5W ±5 %	1324223
₹217	Carton	1M chm 1/5W ±5 %	1324822 1324105
₹218 ₹219	Carton Carton	27k ohm 1∕5W ±5 % 15k ohm 1∕5W ±5 %	1324273 1324153
₹220 ₹221	Carbon Carbon	680 chm 1/5W ±5 % 330 chm 1/5W ±5 %	1324681 1324331
222-223	Not used	· · · · · · · · · · · · · · · · · · ·	
2224-226 2228	Carbon Carbon	10k chm 1/5W ±5 % 68k chm 1/5W ±5 %	1324103 1324683
2229 2401	Carton Oxide Film	100 dm 1/5W ±5 % 1.5 dm 1W ±5 %	1324101 1330391 or
1402	Oxide Film		1330317
		3.3 chm 2W ±5 %	1330460 or 1330318
2403-404 2405-406	Carton Carton	2.7k chm 1/5W ±5 % 39k chm 1/5W ±5 %	1324272 1324393
1407 1408	Carton Carton	1k chm 1/5W ±5 % 4.7k chm 1/5W ±5 %	1324102 1324472
409-410	Carton	10k ofm 1/5W ±2 %	1354103
2411 2412	Cartxon Cartxon	100 ohm 1∕5¥/ ±5 % 2.2k ohm 1∕5¥/ ±5 %	1324101 1324222
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Ref. No		Description	Parts No.
R413	Carton	1k ohm 1/5W ±5 %	1324102
R414 R415	Carbon	3. 3k chm 1/5W ±5 %	1324332
R415	Carbon Not used	18k ohm 1∕5W ±5 %	1324183
R417-418	Cartion	10k ohm 1/5W ±5 %	1324103
R419 R420	Not used	0.00 1 1 500	
R421	Carbon Carbon	6.8k ohm 1/5W ±5 % 91k ohm 1/5W ±5 %	1324682 1324913
R422	Carbon	6. 8k chm 1/5W ±5 %	1324682
R423	Cartxon	75k ohm 1∕5W ±5 %	1324753
R424 R425	Not used Carbon	1.5k chm 1/5W ±5 %	1324152
R426	Carbon	27k ohm 1/4W ±5 %	1330738
R427-430	Not used		1000100
R501	Carbon	150 chm 1/5W ±5 %	1324151
R502	Carton	1. 2k ohm 1/5W ±5 %	1324131
R503	Carbon	82k ohm 1/5W ±5 %	1324823
R504 R505-506	Cartion Cartion	4.7k ohm 1/5W ±5 % 47k ohm 1/5W ±5 %	1324472
R507	Carbon	220k ohn 1/5W ±5 %	1324473 1324224
R508	Carton	47k chm 1∕5W ±5 %	1324473
R509 R510-512	Carton Carbon	220k ohm 1/5W ±5 % 2.7k ohm 1/5W ±5 %	1324224
R513	Carbon	4. 7k chm 1/5W ±5 %	1324272 1324472
R514-515	Carbon	4.7k chm 1/5W ±5 % 10k chm 1/5W ±5 %	1324103
R516 R517-518	Carbon	47k ohm 1/5W ±5 %	1324473
R517-518	Not used Carbon	3.6k chm 1/5\\ ±5 %	1324362
R520	Carbon	47k chm 1/5W ±5 %	1324473
R521	Not used	•	
R522 R523	Cartxon Cartxon	5. 6k chm 1/5W ±5 %	1324562
R524	Carton	10k ohm 1/5W +5 %	1324223 1324103
R525-527	Carbon	22k chm 1/5W ±5 % 20k chm 1/5W ±5 % 10k chm 1/5W ±5 % 6.8k chm 1/5W ±5 % 47k chn 1/5W ±5 % 3.3 chm 1W ±5 %	1324682
R528 R529	Carbon Oxide Film	47k ohn 1/5W ±5 %	1324473
f	OAKE TIM	3.3 G an 14 ±3 %	1330395 or 1330320
R530-600 R601-650	Not used	l pcp	
R651	See Power So Carbon	upply PC8 100k ohm 1∕5W ±5 %	1324104
R652	Caution	1.8k ohm 1/5W ±5 %	1324182
R653	Cartion Cartion	100k chm 1/5W ±5 %	1324104
R654 R655-656	Cartion	1.2k chm 1/5W ±5 % 22k chm 1/5W ±5 %	1324122 1324223
R657	Carbon	1. 2k ohm 1/5W ±5 %	1324122
R701	Cauton	10k chm 1∕5W ±5 %	1204100
R702	Carton	33k ohm 1/5\\ ±5 \%	1324103 1324333
R703	Carton	470k chm 1/5W ±5 %	1324474
R704-706 R707	Carbon Carbon	220k chm 1/5W ±5 %	1324224
R708-709	Carton	22k chm 1/5W ±5 % 47k chm 1/5W ±5 %	1324223 1324473
R710	Carbon	1M chan 1∕5W ±5 %	1324105
R711 R712	Carton	3. 9k chm 1/5W ±5 %	1324392
K712	Cartion	3. 3k ohm 1/5W ±5 %	1324332
R713-714	Carton	12k chm 1/5W ±2 %	1354123
R715 R716	Carton Carton	4.7k chm 1/5W ±2 % 7.5k chm 1/5W ±2 %	1354472
R717	Carbon	33k chm 1/5W ±5 %	1354752 1324333
D719_700	Control		
R718-720 R721	Carbon Carbon	10k chm 1/5W ±5 %	1324103
R722	Carbon	750 chm 1/5W ±5 % 1k chm 1/5W ±5 %	1324751 1324102
R723	Carbon	330k ohm 1/5W ±5 %	1324334
R724 R725	Carbon Carbon	22k chm 1/5W ±5 %	1324223
R726	Carbon	100k chm 1/5W ±5 % 820 clm 1/5W ±5 %	1324104 1324821
R727-729	Carton	47k ohm 1/5W ±5 %	1324473
R730 R731	Carbon Carbon	4.7k chm 1/5W ±5%	1324472
R732-733	Not used	1.5k ohm 1∕5W ±5 %	1324152
R734	Carton	1.5k ohm 1/2W ±5 %	1322152
R745	Carton	4.7k chm 1/5W ±5 %	1324472
R746	Carton	10k chm 1/5W ±5 %	1324103
		emi-Fixed Resistors	'
I Por I	1	CHILL FLACU RESISTORS	
VR51	lkohn B		138N777 or
VR101	lkoʻrm B		138J777 138N777 or
VR201	100k cha B		138J777 138N785 or
	-30% GIN D		138J785
			<u></u>

Ref. No	Description	Parts No.
VR401 VR402	200k chm B (Metal) 200k chm B	1380832 138N786 or 138J786
	Transistors	
Q51	2SC536SPEF or 2SC1740QR	C536SEF or
Q52	2SA608SPTEF or 2SA933QR	C17400R A608SEF or A9330R
Q54 Q56	Not used 290536979F or 2901740QR	C536SFF or
Q101	29C536SPEF or 29C1740QR	C1740QR C536SEF or C1740QR
Q102 Q120	Not used 2505365PEF or 2501740QR	C536SEF or
Q201	25D400F or 25C2060Q	C1740QR D400F or
Q501	2905369P9F or 2901740QR	C2060Q C536SEF or C1740QR
Q502	2SA1317ST or 2SA934QR	A1317ST or A934QR
Q503	29C536SPAF or 29C1740QR	C536SEF or C1740QR
Q504	25D400F or 25C2060Q	D400F or C20600
Q651	2SB892ST or 2SB1010QR	B892ST or B1010QR
Q652	2SD1207ST or 2SD1384QR	D1207ST or D1384QR
Q653	29C3393SPST or 29C1741AQR	C3393SST or C1741AQR
Q654	2SB892ST or 2SB1010QR	B892ST or B1010QR
Q701	2SA1038RS or 2SA1016KFG	A1038RS or A1016KUG
Q702 Q704	25X128FAPQ (FET) 25D1012PG or 25D14685RS	K128PQ D1012FG or D1468SPS
	Digital Transistors	
OR56 OR101	Not used 2SA1346 or DTA124ES	A1346 or
JR501	29C3400 or DIC124ES	A124ES C3400 or
)R502-503)R504	DTA143XS 2SC3400 or DTC124ES	C124ES A143XS C3400 or
)R505	2SA1346 OF DTA124ES	C124ES A1346 or
R506 R702	DTA144WS 2SA1346 or DTA124ES	A124ES A144WS A1346 or
R 703	2903400 or DTC124ES	A124ES C3400 or
R 705	25C3400 or DTC124ES	C124ES C3400 or C124ES
	Miscellaneous	John La
N-Ba N-Bb	Connector Base 5P (TOP) Connector Base 2P (TOP)	1740767
N-D	Connector Rase 7P (TOP)	1740764 1740769
V-E V-J	Connector Base 6P (TOP) Connector Base 5P (TOP)	1740768 1740767
j		

	MCV107	
Ref. No	Description	Parts No.
1	Miscellaneous	
X101 X501 X701	X' tal 4.43Mlz Ceramic Resonator 3.58Mlz Ceramic Resonator 500klz	1811205 or 1811259 1811211 or 1812206 1811103 or 1810414
TU701	Heatsink Tuner IF	6S50318 1812156
Caw-1	RF Carv.	1812155
ļ	POB Ass'y, Timer	1613937BX
	Capacitors	
C801 C802 C804 C805		1201100 1220523 1220870 12F3103
	Dicdes	
D801-810	US1040M or 188254 or OMROTB	US1040M or 188254 or OMPO1B
	ICs	
IC801 IC802 IC803	MN1225 (Mos / Memory) (Memory) MN12800, (Mos / Other) (Reset) MN15283FVAE-2 (Mos / Micro Processor) (Timer	14EN269 14EN185 14EN332A
	Resistors	
R801 R802 R805 R810-811	Carbon 33k chm 1 / 5W ±5 % Carbon 2. 2k chm 1 / 5W ±5 % Carbon 47k chm 1 / 5W ±5 % Carbon 3. 3k chm 1 / 5W ±5 %	1324333 1324222 1324473 1324332
	Transistor	
Q801	29C536SPIF or 29C1740QR	C536SEF or C1740QR
	Digital Trasistor	
QR801	2SA1346 or DTA124ES	A1346 or A124ES
	Switches	
SW804-818 SW827 SW829	Nestr SV Slide SV 1C-2P Slide SV 1C-2P	5622015 or 5622017 or 1622908 1621660 1621660
	Miscellaneous	
TC801	Trimmer 20pF	1280122 or
X 801	X' Tal 4. 19M lz	1280154 1811191
FL801	FIP11CM6	1812096
-	FIP Holder(R) FIP Holder(L)	6N50142 6N50149
	POB Ass'y Control	1613937CX
	Capaci tor	
2803	Electrolytic 47 μF /6.3V ±20%	526R476
+0 00	Resistor	
28 03	Carbon 10k ctm 1/5W ±5 %	1324103

Ref. No	Description	Parts No.			
	Switches				
SW802 SW819-826	Push SW	5622015 or 5622017 or 1622908 5622015 or 5622017 or			
	Wines Harry a	1622908			
ITOO 1	Miscellancous				
VR801	Potentioneter 250k dnn (B) (Tracking)	539N661			
VR802	Potentiameter 20k dnm (B)(Picture)	539N703			
RS801	Remote Sensor	1812012 or 1812075			
ON-5	Connector Base 7P (Side)	1770252			
	POB Ass'y, SW	1613905EX			
S#401	Slide SW	1621691 or 1621692 or 1621693			
	Connector Base &P (Side)	1740781			
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Ref.No	Description	Parts No.
<u> </u>	10B Ass'y, Tower Supply	1613903X
	Capacitors	10133034
C601-602 C603 C604 C605 C606 C607 C608 C609 C610-611 C612 C613-651	Ceramic 0.022 μ F $/$ 50V Z Electrolytic 2200 μ F $/$ 35V Z Electrolytic 2200 μ F $/$ 25V M Electrolytic 22 μ F $/$ 63V M Electrolytic 47 μ F $/$ 63V M Electrolytic 47 μ F $/$ 65V M Electrolytic 47 μ F $/$ 16V M Not used	12F3223 626F228 626D228 626C338 126C226 126C476 126E476 126C476 626B476
	Diodes	_
D601-602	IN4003 or Q210-4003 or 15R35-200A	1N4003 or MPL5209 or 35-200A
D603 D604-605 D606 D607	MTZ30 A B or UZ-30BSC Not used MTZ6, 2B KB1.02L or RS403L or SAVR20 IN4003 or GP10-4003	MIZ30A or MIZ30B or UZ-30BSC MIZ6, 2B KBL02L or RS403L or S4VB20 IN4003F2 or MIL5209
	ICs	111111111111111111111111111111111111111
10501 10502 10503 10504	AN7818F (Linear) (Voltage Regulator) (N7812F (Linear) or NJM7812FA (Linear) (Voltage Regulator) AN78MUSF (Linear) or NJM78MUSFA (Linear) (Voltage Regulator) AN7812F (Linear) or NJM7812FA (Linear) (Voltage Regulator)	AN7818F AN7812F or 14L0251 AN78005For 14L0238 AN7812F or 14L0251
7	Resistors	1
3601 3602 3603 3604-605 3606 3607-650	Not used Metal Oxide 1. 2k chm 1W J Not used Carbon 100 chm 1/5W J Carbon 22k chm 1/5W J Not used	534A122 1324101 1324223
	Miscellaneous	
601 601 602 603	Power Trans Puse 200m/ Not used Fuse 630m/	115M507 or 1150507 or 115N507 1790474 1790479
	Connector Base 11P (Side) Connector Rise Holder Trans Cover L. F Cover	1770256 1730688 1790424 6P50133 6N50150
501	Line Filter	171N082
	Others	
Į:	AC Cord Cord Stopper RCA Plug Cord	5750011 1790173 1750926

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MECHANICAL PARTS LIST (DECK)

P	30	6
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Description	Parts No.	
CYLINDER		
Cylinder Ass'y (Consists of 2-13,24) Drum, upper with video head Mount Assy, Cylinder (Consists of 4-8,24) Drum, Lower Ass'y Mount, Cylinder PCB Ass'y, video Out Screw, Sems, M3 × 10 Screw, Sems, M3 × 12 Motor, TM-81A Screw, Sems, M3 × 12 Motor, TM-81A Screw, Sems, M2 × 4,5 PCB for Upper Drum Screw, Sems, M3 × 8 Screw, Sems, M3 × 10 Bracket, Drum Ground Ground, Drum Screw, Cumper Sems, M3 × 10 Screw, Cumper Sems, M3 × 8 Screw, Sems, M3 × 10 Screw, Cup, M2 6 × 3 Screw, Sems, M3 × 10 Screw, Cup, M2 6 × 3 Screw, Sems, M2 × 5 Rivet, Drum Motor Bracket Supporter PCB, Motor Not used Not used	8000-01-315 8000-01-33 8000-01-302 8000-01-302 8000-01-304 9109-00-00 9098-00-00 9098-00-00 8000-01-14 9109-00-00 8000-01-49 9109-00-00 9098-00-00 8000-01-37	
CHASSIS		
Rivet, chassis Not used Open Angle Ass'y Screw. C-Tight, M2.6 × 5 Rivet, Back Tension Change Plate Arm (B), Back Tension Change Collar Screw. Camera S-Tight, M2.6 × 3.5 Actuator (B), Back Tension Collar Screw. C-Tight, M2.6×5 Return Arm, Right Brake Collar Screw. C-Tight, M2.6×5 Bracket, Mecha Screw. C-Tight, M2.6×5 Bracket, Mecha Screw. C-Tight, M3×5 Not used	8000-02-507 8000-02-301 9192-00-00 8000-02-502 8000-13-32 8000-08-12 9840-00-00 8000-13-31 8000-08-12 9192-00-00 8000-02-21 8000-08-12 9192-00-00 8000-22-09 9202-00-00	
LOADING BASE		
Rivet. loading Base Block (R). Loading Block (R). Loading Block (R). Loading Block (R). Loading Post. Roller Boss. Loading Screw. Set with Hexagon Hole. M 2 ×3 Screw. Camera. M2.6 × 4.5 Washer. Flat. \$\phi_2.6 \times \phi_7 \times t_0.8 Holder. Loading Screw. Sems, M2 × 4 Guide. Tape Flange. Tape Guide Flange. (B). Tape Guide Spring. Tape Guide Nut. M3 Cap. Guide Nut. Tracking Adjuster Screw. Sems, M3 × 6 Rollerpost. SIS Not used Flange (C). Tape Guide Flange (C). Tape Guide Flange (D). Tape Guide Flange (D). Tape Guide Flange (D). Tape Guide Nut. Nylon. M3 Not used	8000-03-501 8000-03-31 8000-03-31 8000-03-34 8000-03-34 8000-03-12 9952-00-00 9559-00-00 8000-03-13 9077-00-00 8000-03-14 8000-03-15 9453-00-00 8000-03-16 9107-00-00 8000-03-33 8000-03-28 8000-03-29 9953-00-00	
LOADING DRIVE	·	
Plate (L) Ass'y, Loading (Consists of 82-85) Rivet, Loading Plate (L) Rivet, Back Tension Return F-Ring, Ø1.5 Spring, Loading Plate Plate (R) Ass'y Loading Plate (Consists of 87-88) Rivet, Loading Plate Brive Gear (L) Ass'y (Consists of 90-92) Gear (A), L Drive Gear (B), Ass'y, L Drive Gear Spring, L Drive	8000-04-301 8000-04-501 8000-04-25 9500-00-00 8000-04-23 8000-04-302 8000-04-23 8000-04-303 8000-04-13 8000-04-13 8000-04-16	
	Cylinder Ass'y (Consists of 2-13, 24) 2 Drum, upper with video head 3 Mount Assy, Cylinder (Consists of 4-8, 24) 4 Drum, Lower Ass'y 5 Mount, Cylinder 6 PCB Ass'y, video Out 7 Screw, Soms, M3 > 10 8 Screw, Soms, M3 > 10 8 Screw, Soms, M3 > 10 8 Screw, Soms, M3 > 10 24 Screw, Soms, M3 > 12 9 Motor, TM-81A 10 Screw, Camera, M2 > 4, 5 11 Screw, Soms, M3 > 8 11 Screw, Soms, M3 > 8 Screw, Soms, M3 > 10 8 Screw, Soms, M3 > 8 Screw, Soms, M3 > 10 8 Screw, Soms, M3 > 8 Screw, Soms, M3 > 10 8 Screw, Soms, M3 > 8 Screw, Soms, M3 > 10 8 Screw, Soms, M3 > 10 8 Screw, Soms, M3 > 8 Screw, Soms, M3 > 10 8 Screw, Soms, M3 > 10 8 Screw, Soms, M3 > 10 8 Screw, Soms, M3 > 10 8 Screw, Soms, M3 > 10 8 Screw, Soms, M3 > 10 8 Screw, Soms, M3 > 10 8 Screw, Soms, M3 > 10 8 Screw, Soms, M3 > 10 8 Screw, Soms, M3 > 10 8 Screw, Soms, M3 > 10 8 Screw, Soms, M3 > 10 8 Screw, Soms, M3 > 10 8 Screw, Soms, M3 > 10 8 Screw, Soms, M3 > 10 8 Screw, Soms, M3 > 10 8 Screw, Soms, M3 > 10 8 Screw, Soms, M2 > 5 Rivet, Dawlind Brother B	

		P306
Ref. No	Description	Parts No.
93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108–140	Washer, Flat, φ4 × φ16×t 0.6 Gear, Control Plate, Gang Gear, Gang Gear, Joint(B) Gear, Joint(A) Gear, Guide Washer, Flat, φ2.5 × φ14×t 1 E-Ring, φ2.0 Roller, Guide Washer, Flat, φ2.5 × φ10×t 1 Screw, Small, M2.6 × 4 E-Ring, φ3.2 E-Ring, φ2.3 E-Ring, φ2.5 Not used Head Base Ass'y	9956-00-00 8000-04-20 8000-04-21 8000-04-21 8000-04-19 8000-04-19 8000-04-19 8000-04-10 9955-00-00 9502-00-00 9038-00-00 9508-00-00 9508-00-00 9508-00-00 9508-00-00 9508-00-00
	(Consists of 142-150) 142 Head, Audio/Control 143 Rivet, Head Base 144 Screw, Azimuth SP 145 Not used 146 Spring, Azimuth 147 Screw, Small, M2.6 × 7 148 Screw, Set with Hexagon Socket, 3 × 5 149 Collar, Adjust 150 Nut. Nylon, M3	6204-15-02 8000-06-501 8000-06-26 8000-06-04 9041-00-00 9950-00-00 8000-06-05 9953-00-00
151 152 156 157-170	Spring, Head Bracket Ass'y, MD PCB (Consists of 153-155) 153 Bracket, MD PCB 154 PCB Ass'y, MD 155 Screw, Sems, M2 ×5 Screw, Sems, M2, 6 ×5 Not used	8000-06-03 8000-06-316 8000-06-18 8000-06-315 9078-00-00 9097-00-00
	FEH	
171	Plate Ass'y, Impedance Roller (Consists of 172-175, 178) 172 Rivet, Impedance 173 Roller, Impedance 174 Washer, Polyslider,	8000-07-303 8000-07-501 8000-07-05 9743-00-00 9747-00-00 6204-15-03 8000-07-04
177 179 180-190	B-Ring, φ3.0 Screw, Camera, M2 X 3 Not used	9505-00-00 9550-00-00
	TENSION ARM	
191 197 198 199 200 201 202 203	Tension Arm Ass y (Consists of 192-196) 192 Brake Ass y (Consists of 193-194) 193 Flat Ass y, Back Tension 194 Screw, P-Tight, M2 × 8 195 Arm Ass y, Tension Arm 196 E-Ring, \$\phi\$1.5 Plate, Back Tension Adjusting Spring, Tension Arm Screw, W-Sems, M2.6 × 5 Not used Arm, Back Tension Return Collar Screw, Sems, Camera, M2.6 x 4.5	8000-08-302 8000-08-303 8000-08-301 9675-00-00 8000-08-501 9500-00-00 8000-08-13 8000-08-14 9971-00-00
204 205 206 207 208 209 210 211 212-220	E-Ring. # 2.0 Lever. Back Tension Return E-Ring. # 2.5 Guide. Tension Support (B). Back Tension Screw. C-Tight. M2.6 × 5 Screw. C-Tight. M3 × 5 Not used PINCH ROLLER Pinch Roller Ass'y (Consists of 222-224)	9999-18-01 9502-00-00 8002-00-00 8000-08-11 9504-00-00 8000-08-16 9192-00-00 9202-00-00
225 226 230 231	222 Screw. M2.6 × 4 223 Rivet. Pinch Roller Arm 224 Pinch Roller E-Ring. \$\phi 2.3\$ Toggle Arm Ass'y (Consists of 227-229) 227 Rivet. Toggle Arm 228 Spring (B). Pinch Roller 229 Spring (A). Pinch Roller Collar Screw. C-Tight M2.6 × 5	9938-00-00 8000-09-504 8000-09-52 9503-00-00 8000-09-305 8000-09-305 8000-09-05 8000-09-04 8000-08-12 9120-00-00

Ref. No.	Description	Parts No.
232	Plate Ass'y, Pressure	8000-09-303
238 239 240 241 242 243-250	(Consists of 233-237) 233 Rivet, Pressure Plate 234 Roller, Pressure 235 E-Ring, \$\phi 2.0\$ 236 Collar 237 Screw, C-Tight, M2.6×5 Actuator, Pressure Arm Support, Tape Shaft, Tape Support Spring, Tape Support Nut, Self Not used	8000-09-503 8000-09-08 9502-00-00 8000-08-12 9192-00-00 8000-09-17 8000-09-17 8000-09-18 8000-09-19
	SUB CHASSIS	
251	Sub Chassis Ass'y	8000-10-306
260-262	(Consists of 252-259) 252 Rivet, Sub Chassis 253 Arm, Change Plate Action 254 E-Ring. \$\phi 3\$ 255 Spring. Change Plate 256 Spring. Change Plate Action Arm 257 Rivet, Actuator Switch 258 Collar 259 Screw, Sems. M2.6 \times 5 Not used	8000-10-507 8000-10-17 9505-00-00 8000-10-15 8000-10-19 8000-10-506 8000-08-12 9097-00-00
263 264 265 266-280	Screw, Sems, M2.6 × 5 Screw, Sems, M2 × 6 Screw, Camera, Flat Head, M2.6 × 5 Not used	9097-00-00 9079-00-00 9564-00-00
22. 200	REEL	.1
281	Reel Ass'y. Supply	8000-11-301
282 283 284 285	Reel Ass'y, Take-up Washer, Polyslider, ϕ 2 × ϕ 5 × t 0.5 Washer, ϕ 3.1 × ϕ 6 × t 0.6 Bracket Ass'y, Reel Sensor (Consists of 286-288)	8000-11-310 9876-00-00 9969-00-00 8000-11-308
289 290 291	286 PCB Ass'y, Reel Sensor 287 Bracket (B), Reel Sensor 288 Screw, Camera, M2.6 × 2.5 Screw, Sens M2.6 × 4 Screw, M2.6 × 7 Not used	8000-11-306 8000-11-17 9555-00-00 9096-00-00 9041-00-00
292 293 294	PCB Ass'y, Reel Sensor Connector Screw, Sems, M2.6 × 4 Not used	8000-11-307 9096-00-00
	REEL DRIVE	
295 296-300 301 302	Pulley. Wind Not used Ass'y, Clutch Gear Holder Ass'y (Consists of 303-305, 314-320)	8000-12-308 8000-12-304 8000-12-311
306 307 308 309 310 311 312 313	303 Rivet, Gear Holder 304 Gear, R Drive 305 E-Ring 314 Gear (B) Ass'y, Return 315 Drum Ass'y, Return 316 E-Ring, φ1.5 317 Arm, Return 318 Arm Collar, Return 319 Screw, Camera M2×3 320 Sprig, Return Gear (p) Gear, FF Washer, φ1.6 × φ3.8 × t0.3 Wave, Washer Screw, Sems M2×5 Clutch Ass'y, RF Washer, φ3.6 × φ6 × t0.1 Washer, ρ0.9slider φ2.6 × φ6 × t0.5	8000-12-505 8000-12-19 9500-00-00 8000-12-306 8000-12-307 9500-00-00 8000-12-387 9502-00-00 8000-12-25 8000-12-07 8000-12-07 8000-12-08 9743-00-00 8000-12-309 9798-00-00
	BRAKE	1 2000 10 500
321	Plate. Switching Brake Ass'y, Supply Reel (Consists of 323-325) 323 Main Brake Ass'y, Supply Reel 324 Spring. Brake Arm 325 Shue B. Brake	8000-13-501 8000-13-501 8000-13-501 8000-13-09 8000-13-26
326 327 328	E-Ring. \$\phi 2.3\$ Spring. Brake Main Brake Ass'y, Take-up Reel ((Consists of 329-331)) 329 Main Brake Ass'y, Take-up Reel 330 Spring. Brake Arm	9503-00-00 8000-13-10 8000-13-302 8000-13-502 8000-13-09
332 333 334 335	331 Shue B, Brake E-Ring, φ2.3 Arm, Take-up Brake Actuator Collar Screw, Sems, M2.6 ×5	8000-13-26 9503-00-00 8000-13-34 8000-08-12 9097-00-00

		P306
Ref. No.	Description	Parts No.
336	Arm Ass'y, Left Brake	8000-13-304
000	(Consists of 337-338)	1
	337 Arm, Left Brake 338 Shue, Brake	8000-13-33 8000-13-11
339	Spring LB Arm	8000-13-18
340 341	E-Ring, $\phi 2.3$ Arm, Right Brake Actuator	9503-00-00 8000-13-21
342	Arm, Left Brake Actuator	8000-13-20
343 344	Spring, Nutral Collar, Left Brake Actuator Arm	8000-13-37 8000-13-29
345	Spring, Left Brake Actuator Arm	8000-13-28
346 347	Screw, Small M2.6 × 11 Crank, Bell	9970-00-00 8000-13-23
348	E-Ring, $\phi 2.5$	9504-00-00
349 350	Plate, Main Plate, Pull (A)	8000-13-02 8000-13-36
351	Collar	8000-08-12
352	Screw, Sems, M2. 6×5	9097-00-00 8000-13-305
353 354	Brake Ass'y, S Soft Spring, S Soft Brake	8000-13-16
355	E-Ring. φ2.3 Arm Ass'y. Back Tension	9503-00-00 8000-13-306
356 357	Arm Ass y, Back Tension Spring, Right Brake	8000-13-300
358	Sleeve, Right Brake Arm	8000-13-24 9503-00-00
359 360	E-Ring, ϕ 2.3 Not used	3303-00-00
	PLANGER	_L
361	Planger Ass'y. Supply	8000-14-303
	(Consists of 362-364) 362 Planger Ass y. Main	8000-14-302
	363 Board, Release Spring	8000-14-06
365	364 Screw, Sems, M2 × 4 Planger	9077-00-00 8000-14-04
366	Screw, Sems, M2.6 $ imes$ 5	9097-00-00
367 368	Holer, Planger Screw, Sems, M2.6 × 4	8000-10-23 9096-00-00
369-370	Not used	
	FLYWHEEL	
371	Capstan Ass'y, Flywheel	8000-15-30
372 373	FL Plate Ass'y Belt, Main	8000-15-304 8000-15-26
374-375	Not used	1
376 377	Washer, Nylon, φ3.6 × φ10×t 0.5 Capstan Metal	9957-00-00 8000-15-24
378	Screw, Flat, M2.6 × 6	9684-00-00
379 380	Not used Screw, C-Tight, M3 × 5	9202-00-00
381 382-391	Washer, $\phi 3.43 \times \phi 5 \times t 0.5$	9860-00-00
006-991	Not used MOTOR	_L
200		9000 16 205
392 393	Motor Ass'y, Capstan Belt, Drive	8000-16-305 8000-16-07
394	Belt, Joint	8000-16-08
395 396	Screw, Sems, M3 X 4 Pulley, Joint	9105-00-00 8000-16-304
397	Washer, Polyslider, ϕ 1.6 \times ϕ 3.8 \times t 0.3	9743-00-00
398 399-460	Washer, Lumilar, $\phi 2.1 \times \phi 5 \times t 0.5$ Not used	9920-00-00
	SENSOR	J
461	Not used	T
	462 PCB Ass'y, Lamp Holder	8000-18-309
465-466	463-464 Not used Not used	1
467 468	Sensor, Dew Screw, Sems, M3 × 4	6808-00-08 9105-00-00
469-649	Not used	
650	Tape Loading Motor Ass'y (Consists of 651-671)	8000-21-302
l	651 Motor with Pulley	8000-21-303
	652 Motor Bracket (B), Tape Loading 653 TL Worm Gear	8000-21-27 8000-21-304
i	654 Mode Switch Ass'y	8000-21-305 9097-00-00
	655 Screw, Sems. M2.6 × 5 656 Holder (A), TL Worm Gear	8000-21-32
[657 Holder (B), TL Worm Gear 658 Pulley, TL	8000-21-33 8000-21-40
1	659 Belt, TL	8000-21-39
1	660-662 Not used 663 Actuator, Angle Switch	8000-21-28
[664 Collar, Actuatorr Angle	8000-21-12
İ	665 Screw, Sems, M2 × 4 666 Actuator, M Switch	9077-00-00 8000-21-501
	667 Not used	}
1	668 Screw Sems, M3 × 4 669 Screw C-Tight, M2.6 × 5	9105-00-00 9192-00-00
ļ	670 Washer, $\phi 2.2 \times \phi 3.8 \times t 0.2$	9939-00-00 9499-00-00
	671 E-Ring, φ1.2 672-699 Not used	9499-00-00
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Ref. No.	Description	Parts No.
700	Front Loading Ass'v (Consists of 701-819)	8000-22-323
701	Bracket Ass'y, Loading Motor (Consists of 702-716, 819)	8000-22-302
1	702 Motor Ass'y, Loading 703 PCB Ass'y, Loading Motor	8000-22-303 8000-22-304
	704 Rivet, Motor Bracket 705 Gear, Worm	8000-22-501 8000-22-305
	706 PCB Ass' y. Sensor (R) 707-709 Not used	8000-22-320
	710 Lever (A), Switch 711 Lever (B), Switch 712 Holder, Worm Gear	8000-22-28 8000-22-29
	712 Holder, Worm Gear 713 Not used 714 Washer, Polyslider,	8000-22-27
ļ	715 Screw, Sens, M2 × 5	9743-00-00
	716 Bell, Front Loading 717 Bracket (B), Molor	8000-22-64 8000-22-70
718	819 Screw, Sems, Camera, M2.6 x 4.5 Not used	9999-18-01
719 720	Record Switch Ass'y Screw, Sems, M2 X 4	8000-22-324 9077-00-00
721	Cassette Holder Ass'y (Consists of 722-727)	8000-22-308
	722 Holder, Cassette 723 Plate, Slide 724 Lock Plate (R)	8000-22-03 8000-22-13
	725 Collar	8000-22-12 8000-08-12
728-729	726 Spring, Lock Plate 727 Screw, Camera, M2.6 × 3 Not used	8000-22-43 9968-00-00
730	Front Bracket Ass'y (Consists of 731-733)	8000-22-309
l	731 Bracket, Front 732 Guide (R), Tape	8000-22-06 8000-19-25
734-744	733 Guide (L). Tape Not used	8000-19-26
745	Side Plate (R) Ass'y (Consists of 746-756)	8000-22-310
	746 Plate (R). Side 747 Pressure, Cassette 748 Not used	8000-22-502 8000-19-11
1	749 Screw, Camera, M2.3 × 2 750 Lever, Open	9833-00-00 8000-22-25
1	751 Spring, Open Lever 752 Collar, Opaen Lever	8000-22-44 8000-22-42
	753 Screw, Camera, M2 × 4 754 Lever, Rock Cancel	9967-00-00 8000-22-16
	755 Roller, Guide 756 Washer, Polyslider,	8000-22-23 9743-00-00
757 758-759	ϕ 1. 6 \times ϕ 3. 8 \times t 0. 3 Stay. Top	8000-22-65
760	Side Plate (L) Ass'y (Consists of 761-770)	8000-22-311
	761 Plate (L). Side 762 Pressure. Cassette	8000-22-503 8000-19-11
	763 Not used 764 Screw, Camera, M2.3 × 2	9833-00-00
	765 Lock Plate (L) 766 Spring, Lock Plate (L)	8000-22-66 8000-19-65
	767 Collar, Lock Plate 768 Screw, Camera, M2 × 2.5	8000-19-63 9966-00-00
	769 Roller, Guide 770 Washer, Polyslider.	8000-22-23 9743-00-00
771-774 775	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	0000 22 212
	(Consists of 776-787) 776 Bracket (R), llousing	8000-22-312 8000-22-504
	777 Wormwheel Ass'y (Consists of 778-780)	8000-22-313
	778 Wormwheel 779 Gear, Friction	8000-22-20 8000-22-21
	780 Spring Friction 781 Lift Gear (R) Ass'y	8000-22-48 8000-22-314
	(Consists of 782-784) 782 Gear (R), Lift 783 Ann, Lift	8000-22-15
	784 Spring, Lift Gear 785 Guide, Open Lever	8000-22-11 8000-22-45 8000-22-26
	786 Sleeve. Guide 787 E-Ring. φ2.5	8000-22-24 9504-00-00
788-789 790	Not used Housing Bracket (L) Ass y	8000-22-315
	(Consists of 791-804) 791 Bracket (L), Housing	8000-22-505
	792 PCB Ass'y (L), Sensor 793-795 Not used 796 Lift Gear (L) Ass'y	8000-22-321
	796 Lift Gear (L) Ass'y (Consists of 797-799) 797 Gear (L), Lift	8000-22-318 8000-22-14
	798 Arm, Lift 799 Spring, Lift Gear	8000-22-14 8000-22-11 8000-22-45

			P306
	Ref. No.	Description	Parts No.
	805-809	800 Lever, Lift 801 Spring, Lift Lever 802 Sleeve, Guide 803 F-Ring, \$\phi 2.5\$ 804 Screw, Sems, \$M2.6 \times 6 Not used	8000-22-22 8000-22-47 8000-22-24 9504-00-00 9098-00-00
	810 811 812 813 814 815 816 817 818	Bracket, Rear Plate, Upper Shaft, Synchronize Gear (A). Synchronize E-Ring. Ø 2.5 Screw. Sems, M2.6 × 4 Screw. Camera, M2.6 × 3 Screw. Camera, M2.3 × 2.5 Screw. Camera, M2.3 × 2.5 Screw. C-Tight, M3 × 5	8000-22-08 8000-22-07 8000-22-46 8000-22-34 9504-00-00 9096-00-00 9556-00-00 9202-00-00
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MECHANICAL PARTS LIST (CABINET)

Ref. No	Description	Parts No.
A-1X	Frant Ass' y	6A50370
Λ-1	consists of following Front Panel Ass'y	6A50370X
	(Nat-repairable) Front	6C50972
	Button, FF (RDW, F. FND, PAUSE/STILL NOISE CANCEL)	6D50973
	Button, Power (FUNCTION, EJECT) Button, Counter	6D50971 6D50972
	(CLOCK COUNTER, RESET, MENTRY, CANNEL DOWN / LP, QTR)	
	Button, Record Button, Play (PLAY, STOP)	6D51069 6D50970
A-2 A-3	Door, Timer Plate, Counter	6D51068 6E50973
A-4 A-5	Plate, Timer Not used	6E50677
A-12	Label, Tuner	6E50668
A-6 A-7	Case, Top Panel Bottom	6G50067 6G50053
A-8 A-9	Jack Board Ass'y Foot	6A50183 6E50453
Λ-10 Λ-11	Door, Cassette Label Type	6D51070 6E51013
A-13	Plate, Jack Board	6P50128
B1-1	Deck Ass'y (See Deck List) TN-8000	P306SRF
B2-1 B2-2	Cabinet, Main Holder, Deck Angle	6C50256 6S50323
B2-3 B2-4	Holder, Supporter Holder, Deck	6S50324 6S50208
132-5 132-6	Holder, Cassette Door	6L50062
B2-7	Ground Plate Stopper Holder, AC Cord	6S50342 6S50286
B2-8 B2-9	Ground Plate, Control PCB Heat Sink	6S50299 6S50317
B2-10	Sheet, Insulation	6P50124
l-1	Screw, P-Tight, Brazier Nead, Flange M3 ×12 (for Jack Board Ass'y—2pcs.)	OOKP312
L-2	Screw, P-Tight, Bind Head M3 ×10 (for Jack Board Ass'y-1pc.)	GEMP310
	(for Head MMP POB—1pc.) (for Holder, Supporter—2pcs.)	
l3	Screw, P-Tight, Bind Head M3 ×12 (for Main POB—3pcs.)	GBMP312
L-4	M3 ×12 (for Main POS—3pcs.) Screw, P-Tight, Brazier, Flange M3 ×12 (for Deck Ass'y—5pcs.)	COMP312
L-5	Screw, P-Tight, Bind Head M4 ×12 (for Heat Sink2pcs.)	GBMP412
L-7	Screw, S-Tight, Bind Head M3 ×6 (for Holder, Deck—1pc.)	CBMS306
18	Screw, CE-Tight M ×8 (for Transformer—2pcs.)	GZMC408
L-9	Screw, Sens, Pan Head M3 ×5 (for Holder, Cassette Door—Ipc.)	CPM3305
1,-10	Screw, Tapping, Bind Head M3 ×10 (for Transistors—4pcs.)	DBM1310
	(for IC-lpc) (for Power Supply PCB-lpc)	
7	***Hardware Kits ***	
L-2	Screw, P-Tight, Bind Head M3 ×10 (for Front Ass y—3pcs.)	GBMP310
L-6	(for Panel, Bottom——8pcs.) Screw, P-Tight, Bind Head	GBKP412
	M4 ×12 (for Case, Top:—3pcs.)	JAN 116
	Accessory	
	RF Cord	1750665 or 1750967
	Remote Control Box Owner's Manual	1812379
"	OWNERS STREET	7E50537
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